





# APPENDIX



## Air Quality in Ontario 1989



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# APPENDIX

## AIR QUALITY IN ONTARIO

### 1989

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# INTRODUCTION

This Appendix is intended for use in conjunction with the annual report Air Quality in Ontario 1989.

For each pollutant, tables provide the location of stations and supply sample distribution information including means, maxima and the number of exceedances of the Ontario criteria.

The entire continuous (hourly) network is summarized in Appendix Table A-1 and Maps 1 and 2. The table gives station name, numerical identifier, and pollutants measured. The numerical identifier is the station (ID) number, the first digit of which identifies the geographic region in which the station is located. The Ministry of the Environment has divided the province into 7 regions. Region 1 is South-west with headquarters in London; Region 2 is West-central with headquarters in Hamilton; Region 3 and 4 is Central with headquarters in Toronto; Region 5 is South-east with headquarters in Kingston; Region 6 is North-west with headquarters in Thunder Bay and finally Region 7 is North-east with headquarters in Sudbury. Letter codes indicate whether data are telemetered (T) or chart-read (C). The column headings for pollutants are as follows:

SO <sub>2</sub>	sulphur dioxide
SP	suspended particles or soiling index (COH)
CO	carbon monoxide
O <sub>3</sub>	ozone
NO <sub>2</sub>	nitrogen dioxide
NO	nitric oxide
NOx	total nitrogen oxides
THC	total hydrocarbon compounds
RHC	reactive (non-methane) hydrocarbon compounds
TRS	total reduced sulphur compounds
API	air pollution index
AQI	air quality index

Table A-2 gives detailed locations for the continuous monitoring network, including the type of station (TYP), the year the station was established (YR), the latitude (LAT) and longitude (LONG), and the elevation of the sampling inlet (ELEV) above ground level.

The Air Quality Index sites are shown in Map 3.

The particulate (daily) network is summarized in Appendix Table A-3 and Maps 4 and 5. The table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for pollutants are as follows:

TSP	total suspended particulate
Cd	cadmium
Cr	chromium
Fe	iron
Mn	manganese
Ni	nickel
Pb	lead
V	vanadium
NO <sub>3</sub>	nitrate
SO <sub>4</sub> <sup>2-</sup>	sulphate

Table A-4 gives detailed locations for the daily monitoring network. The meteorological network is summarized in Table A-5 and Maps 6 and 7. The table gives station name, numerical identifier, meteorological parameters measured and the height of the measurements. The statistical data and the 10-year trends for the various pollutants are provided in Tables A-6 through A-39.

## ABBREVIATIONS

INS	insufficient data to compute relevant statistics.
YR	year that monitoring began.
TYP	survey type



TABLE A-1 THE CONTINUOUS (HOURLY) NETWORK (1989)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, HOURLY DATA

T = TELEMETRY    C = CHART READ    D = CALCULATED BY AQUIS    YR = YEAR STATION BEGAN  
 TYP = A: AMBIENT SURVEY: I: SOURCE SPECIFIC SURVEY

[illegible]



TABLE A-1 (Cont.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, HOURLY DATA

T = TELEMETRY C = CHART READ D = CALCULATED BY AQUIS YR = YEAR STATION BEGAN  
 TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY

STATION NAME	ID	TYP	YR	S02	COH	CO	O3	NO2	NO	NOX	THC	RHC	CH4	TRS	API	AQI
HURON PARK	10001	A	77	.	.	.	T	.	.	.	.	.	.	.	.	.
WINDSOR- WRIGHT	12007	A	84	T	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- UNIVERSITY	12008	A	69	T	T	T	T	T	T	T	T	T	T	T	T	T
WINDSOR- WYANDOTTE	12013	A	76	T	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- COLLEGE	12016	A	75	T	T	T	T	.	.	.	.	.	.	T	T	T
WINDSOR- HOWARD	12038	I	86	.	C	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- DOUGALL	12039	I	86	.	C	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- MALDEN	12048	I	84	T	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- ALEXANDRINE	12049	I	86	.	C	.	.	.	.	.	.	.	.	.	.	.
MERLIN	13021	A	77	.	.	.	T	.	.	.	.	.	.	.	.	.
COURTRIGHT- HWY 40	14016	A	69	T	.	.	.	.	.	.	.	.	.	.	.	.
SARNIA- CENTENNIAL	14064	A	76	T	T	T	T	T	T	T	T	T	T	T	T	T
MANDAMIN	14118	A	77	.	.	.	.	.	.	.	.	.	.	.	.	.
LONDON- FAIR GROUNDS	15001	A	70	T	T	T	T	T	T	T	T	T	T	T	T	T
LONGWOODS	15009	A	83	.	T	.	.	.	.	.	.	.	.	.	.	.
PARKHILL	15013	A	83	.	.	.	T	T	T	T	.	.	.	.	.	.
LONDON	15015	A	86	C	.	.	.	.	.	.	.	.	.	.	.	.
LONDON	15016	A	86	C	.	.	.	.	.	.	.	.	.	.	.	.
LONDON	15017	A	86	C	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- CON RD 2	18007	A	79	T	.	.	T	.	.	.	.	.	.	T	.	.
SIMCOE	22071	A	75	T	.	.	T	T	T	T	.	.	.	.	.	.
NANTICOKE- CHEAPSIDE	22086	I	77	T	.	.	.	T	T	T	.	.	.	T	.	.
TOWNSEND	22094	I	86	T	.	.	.	.	.	.	.	.	.	.	.	.
LONG POINT	22901	A	79	T	.	.	T	T	T	T	.	.	.	.	.	.
NANTICOKE- WALPOLE	22904	I	79	.	.	.	.	.	.	.	.	.	.	T	.	.
NANTICOKE- RAINHAM	22907	I	84	T	T	.	.	.	.	.	.	.	.	T	.	.
KITCHENER	26029	A	76	T	T	T	T	T	T	T	.	.	.	T	.	.
WATERLOO	26045	A	88	T	T	T	T	.	.	.	.	.	.	T	.	.
VIOLET HILL- HWY 89	26048	A	88	.	T	.	.	.	.	.	.	.	.	.	.	.
CHIPPAWA- NORTON	27051	I	79	T	.	.	.	.	.	.	.	.	.	.	.	.
THOROLD- QUEEN	27052	I	83	T	T	.	.	.	.	.	.	.	.	T	.	.
NIAGARA F- STANLEY	27055	I	83	T	T	.	.	.	.	.	.	.	.	T	.	.
NIAGARA F- ALLENDALE	27056	A	83	T	T	.	T	.	.	.	.	.	.	T	.	.
ST. CATHARINES	27067	A	87	T	T	T	T	T	T	T	.	.	.	T	.	.
GUELPH- EXHIBITION	28028	A	86	T	T	T	T	.	.	.	.	.	.	T	.	.
HAMILTON- ELGIN	29000	A	87	T	T	T	T	T	T	T	T	T	T	T	T	T
HAMILTON- HUNTER	29001	A	61	.	T	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- BARTON	29025	I	69	T	T	T	.	.	.	.	.	.	.	.	.	.
HAMILTON- BEACH	29102	A	84	T	T	T	T	T	T	T	.	.	.	T	.	.
HAMILTON- NASH	29105	A	85	T	T	T	T	.	.	.	.	.	.	T	.	.

TABLE A-1 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, HOURLY DATA

T = TELEMETRY C = CHART READ D = CALCULATED BY AQUIS YR = YEAR STATION BEGAN  
 TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY

STATION NAME	ID	TYP	YR	S02	COH	CO	O3	NO2	NO	NOX	THC	RHC	CH4	TRS	API	AQI
TERRACE BAY	63090	I	81	.	.	.	.	.	.	.	.	.	.	.	T	.
TERRACE BAY- MILL RD	63093	I	88	.	.	.	.	.	.	.	.	.	.	.	T	.
HANKEYE LAKE	63100	A	83	.	.	.	C	.	.	.	.	.	.	.	.	.
THUNDER B- JAMES ST	63200	A	86	T	T	T	T	T	T	T	.	.	.	.	T	T
S.S.MARIE- WM. SCHOOL	71068	A	87	T	T	.	T	T	D	T	.	.	.	.	T	T
WAVA- MOTOR INN	71070	A	86	T	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH ROCK FALLS	72084	I	86	.	.	.	.	.	.	.	.	.	.	.	T	.
HOYLE/TIMMINS	72089	I	87	T	.	.	.	.	.	.	.	.	.	.	.	.
NORTH BAY	75010	A	79	T	T	T	T	T	D	T	.	.	.	.	T	T
SKEAD	77012	A	52	T	.	.	.	.	.	.	.	.	.	.	.	.
HANMER	77013	A	73	T	.	.	.	.	.	.	.	.	.	.	.	.
SUDBURY- ASH	77016	A	69	T	.	.	.	.	.	.	.	.	.	.	.	.
CONLSTON- GOVERNMENT	77028	A	74	T	.	.	.	.	.	.	.	.	.	.	.	.
GARSON- FALCONBRIDGE	77065	A	76	T	.	.	.	.	.	.	.	.	.	.	.	.
NEW SUDBURY- KENNEDY	77075	A	76	T	.	.	.	.	.	.	.	.	.	.	.	.
SUDBURY- LONG LAKE	77096	A	80	T	.	.	.	.	.	.	.	.	.	.	.	.
MIKKOLA	77201	A	82	T	.	.	.	.	.	.	.	.	.	.	.	.
SUDBURY- SCIENCE N	77203	A	84	T	T	T	T	T	D	T	.	.	.	.	T	T
RAYSIDE- ST LAURENT	77206	A	85	T	.	.	.	.	.	.	.	.	.	.	.	.
COPPER CLIFF	77218	I	87	T	.	.	.	.	.	.	.	.	.	.	.	.
GATCHELL	77220	I	88	T	.	.	.	.	.	.	.	.	.	.	.	.

Provincial Totals

75 43 28 47 37 37 37 9 2 2 32 32 34

TABLE A-2 LOCATIONS OF CONTINUOUS (HOURLY) STATIONS (1989)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, HOURLY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
COLLEGE OF AGRIC TECH HURON PARK	10001	A	77	43:17	81:30	5
WRIGHT/WATER ST WINDSOR	12007	A	84	42:17	83:06	4
467 UNIVERSITY AV W WINDSOR	12008	A	69	42:19	83:03	8
FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR	12013	A	76	42:19	83:00	6
COLLEGE/SOUTH ST WINDSOR	12016	A	75	42:18	83:04	4
2885 HOWARD AV WINDSOR	12038	I	86	38:41	82:54	1
DOUGALL/E.C. ROW W WINDSOR	12039	I	86	42:17	83:01	5
MALDEN RD. WINDSOR	12048	I	84	42:17	83:02	3
643 ALEXANDRINE WINDSOR	12049	I	86	42:17	83:01	1
MOE WATER PUMP STN, MIDDLE RD MERLIN	13021	A	77	42:15	82:13	3
HWY40 (OPP LAMBTON GS) COURTRIGHT	14016	A	69	42:48	82:29	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	A	76	42:59	82:24	3
M.T.C. SHED, MANDAMIN	14118	A	77	42:57	82:12	4
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	A	70	42:59	81:13	4
LONGHOODS CONSERVATION AUTHORITY	15009	A	83	42:53	81:29	4
PUC BLDG PARKHILL	15013	A	83	43:10	81:41	5
951 COMMISSIONERS RD E LONDON	15015	A	86	42:58	81:13	4
801 COMMISSIONERS RD E LONDON	15016	A	86	42:57	81:13	4
8 MOUNTSFIELD DR LONDON	15017	A	86	42:58	81:15	4
CONCESSION RD 2 LOT A TIVERTON	18007	A	79	44:18	81:35	4
EXPERIMENTAL FARM SIMCOE	22071	A	75	42:51	80:16	4
CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	22086	I	77	42:52	80:00	5
TOMLINE RD/CN 13 TOWNSEND	22094	I	86	42:54	80:09	4
PROVINCIAL PARK LONG POINT	22901	A	79	42:35	80:23	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	I	79	42:50	80:02	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	I	84	42:49	80:05	4
EDNA/FREDERICK STS KITCHENER	26029	A	76	43:27	80:28	5
WEBER/UNIVERSITY WATERLOO	26045	A	88	43:29	80:31	4
NIAGARA FALLS RD/ONTARIO ST THOROLD	27042	I	78	43:06	79:12	5
HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	27051	I	79	43:04	79:04	16
185 QUEEN ST S THOROLD	27052	I	83	43:07	79:12	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	I	83	43:08	79:05	4
ALLENDALE AV NIAGARA FALLS	27056	A	83	43:05	79:05	5
ARCYLE CRESCENT ST CATHARINES	27067	A	87	43:10	79:14	4
EXHIBITION ST/CLARK ST GUELPH	28028	A	86	43:33	80:16	4
ELGIN/KELLY HAMILTON	29000	A	87	43:15	79:52	4
HUGHSON/HUNTER HAMILTON	29001	A	61	43:15	79:52	9
BARTON/WENTWORTH HAMILTON	29025	I	69	43:16	79:51	4
467 BEACH BLVD HAMILTON	29102	A	84	43:17	79:47	4
NASH RD/KENTLEY DR HAMILTON	29105	A	85	43:14	79:46	4



TABLE A-2 (CONT.)

ONTARIO ATR MONITORING NETWORK AS OF 31-DEC-89, HOURLY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
VICKERS RD/EAST 8TH ST HAMILTON	29114	A	85	43:14	79:52	3
MAIN ST/HWY 403 HAMILTON	29118	A	85	43:15	79:54	3
MISSION, 381 YONGE ST TORONTO	31049	A	72	43:40	79:23	4
26 BREADALBAE TORONTO	31104	A	81	43:40	79:23	15
PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	31120	A	81	43:40	79:27	9
CN TOWER, 301 FRONT ST W TORONTO	31190	A	85	43:39	79:23	444
LEASIDE HYDRO STATION EAST YORK	32010	A	88	43:42	79:21	5
LAWRENCE/KENNEDY SCARBORO	33003	A	70	43:45	79:16	4
REDLAND CR (SCARB BLUFFS) SCARBORO	33019	A	69	43:43	79:14	1
SC CTR, 770 DON MILLS RD NORTH YORK	34002	A	69	43:43	79:20	17
HENDON AVE (YONGE ST/FINCH AVE) NORTH YORK	34020	A	88	43:47	79:25	5
35 EDGAR AVE, NORTH YORK	34025	A	88	43:43	79:32	5
ELMCREST RD (CENTENNIAL PK) ETOBICOKE	35003	A	69	43:39	79:35	4
QUEENSWAY HOSPITAL ETOBICOKE	35005	I	68	43:37	79:34	9
EVANS/ARNOLD AV ETOBICOKE	35033	A	67	43:37	79:31	3
125 RESOURCES RD (MOE LAB) ETOBICOKE	35050	A	76	43:43	79:32	18
CLEARVIEW HEIGHTS YORK	36030	A	88	43:42	79:29	5
HWY2/NORTH SHORE BLVD E BURLINGTON	44008	A	79	43:19	79:48	17
BRONTE RD/NOBURN CRES OAKVILLE	44015	A	80	43:24	79:44	5
PS, RITSON RD/OLIVE AV OSHAWA	45025	A	79	43:53	78:51	5
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	A	77	43:34	79:37	5
MEADOW PK, APPLE LANE COUNTRY CLUB, MISS'A	46117	I	87	43:31	79:36	5
509 VICTORIA ST E ALLISTON	47035	A	81	44:09	79:51	4
ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	47042	A	83	44:23	79:42	12
HWY47/E OF HWY48 STOUFFVILLE	48002	A	74	43:58	79:16	5
HWY 117/PAINT LAKE RD DORSET	49010	A	81	45:13	78:56	3
MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	51001	A	71	45:26	75:41	4
NAPIER ST KINGSTON	52020	A	88	44:14	76:31	5
MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	56051	A	70	45:01	74:44	4
SCHOOL, 435 SECOND ST W CORNWALL	56068	I	75	45:01	74:44	6
ST PETER'S SCHOOL CORNWALL	56071	I	84	44:59	75:27	4
CITY HALL, 500 GEORGE ST PETERBORO	59006	A	76	44:19	78:19	18
SEWAGE TREATMENT PLT BALMERTOWN	61014	I	82	51:03	93:44	6
35 VAN HORNE AV DRYDEN	61027	I	84	49:47	92:50	15
PORTAGE/CHURCH ST FORT FRANCES	62030	I	76	48:37	93:24	4
CEMETERY, COLONIZATION RD W FORT FRANCES	62032	I	76	48:37	93:25	5
HOSPITAL, 35 ALCOMA ST N THUNDER BAY	63022	A	78	48:26	89:13	22
PENINSULA BLDG MARATHON	63034	I	82	48:43	86:23	12
CAN-CAR, MONTREAL ST THUNDER BAY	63046	I	76	48:21	89:18	3
RECREATION CENTRE RED ROCK	63084	I	81	48:57	88:15	7

TABLE A-2 (CONT.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, HOURLY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
ST MARTIN SCHOOL TERRACE BAY	63090	1	81	48:47	89:19	8
MILL/ SOUTH CAMP RD TERRACE BAY	63093	1	81	48:47	89:17	4
HAWKEYE LAKE	63100	A	83	48:40	89:29	4
MTC 615 JAMES ST S THUNDER BAY	63200	A	86	48:23	89:17	3
WM. MERRIFIELD SCHOOL SNAULT STE MARIE	71068	A	87	46:32	84:21	3
WAWA MOTOR INN WAWA	71070	A	86	47:59	84:47	3
ROSS ROAD SMOOTH ROCK FALLS	72084	A	86	49:17	81:37	4
R.R.#1 LOT 11 CONC. 1 HOYLE	72089	1	87	48:33	81:04	3
OPP STN NORTH BAY	75010	A	79	46:19	79:27	4
SKEAD	77012	A	52	46:39	80:46	5
HAMMER	77013	A	73	46:39	80:57	5
WATER TANK, ASH ST SUBBURY	77016	A	69	46:30	81:00	3
GOVERNMENT RD/EDWARD ST CONISTON	77028	A	74	46:29	80:51	5
FALCONBRIDGE RD GARSON	77065	A	76	46:34	80:51	5
KENNEDY ST NEW SUBBURY	77075	A	76	46:31	80:57	5
LONG LAKE RD (VILLA LOYOLA) SUBBURY	77096	A	80	46:24	81:01	4
MIKKOLA (J HAMILTON SCHOOL) WALDEN	77201	A	82	46:25	81:07	5
SCIENCE NORTH SUBBURY	77203	A	84	46:28	80:59	10
ST LAURENT/REGIONAL RD RAYSIDE	77206	A	85	46:36	81:06	4
LOT 2-PLAN M-1025 COPPER CLIFF	77218	1	87	46:28	81:04	4
GATCHELL SUBBURY	77220	1	88	46:29	89:01	3

TABLE A-3 THE PARTICULATE (DAILY) NETWORK (1989)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS    TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY  
 W = WEEKDAY ONLY    S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	N03	S04
-----														
GODERICH	10015	A	74	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- CITY HALL	12002	A	69	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- RIVERSIDE	12005	A	78	6	6	6	6	6	6	6	6	6	6	6
LA SALLE	12006	A	83	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- WRIGHT	12007	A	84	6	6	6	6	6	6	6	6	6	6	6
-----														
WINDSOR- UNIVERSITY	12008	A	70	1	1	1	1	1	1	1	1	1	1	1
LITTLE RIVER	12009	A	71	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- MANNING	12010	A	71	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- DROUILLARD	12011	A	88	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- WYANDOTTE	12013	A	71	6	6	6	6	6	6	6	6	6	6	6
-----														
WINDSOR- PROSPECT	12015	A	71	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- COLLEGE	12016	A	75	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- GEORGE	12036	A	77	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- CALIFORNIA	12037	A	77	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- HOWARD	12038	I	77	6	6	6	6	6	6	6	6	6	6	6
-----														
WINDSOR- DOUGALL 1	12039	I	78	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- DOUGALL 2	12047	A	85	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- ALEXANDRINE	12049	A	85	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- CAPITOL	12051	A	86	6	6	6	6	6	6	6	6	6	6	6
AMHERSTBURG	12053	A	81	6	6	6	6	6	6	6	6	6	6	6
-----														
CHATHAM	13003	A	69	6	6	6	6	6	6	6	6	6	6	6
THAMESVILLE	13007	I	89	6	6	6	6	6	6	6	6	6	6	6
THAMESVILLE	13008	I	89	6	6	6	6	6	6	6	6	6	6	6
SARNIA- MITTON	14001	A	62	6	6	6	6	6	6	6	6	6	6	6
COURTIGHT- HWY 40	14016	A	69	1	1	1	1	1	1	1	1	1	1	1
-----														
CORUNNA- R.R. #1	14030	A	78	6	6	6	6	6	6	6	6	6	6	6
MOORETOWN	14031	A	78	6	6	6	6	6	6	6	6	6	6	6
SARNIA- POINT EDWARD	14054	A	66	6	6	6	6	6	6	6	6	6	6	6
CORUNNA- ST CLAIR	14059	A	76	6	6	6	6	6	6	6	6	6	6	6
SARNIA- CENTENNIAL	14064	A	76	6	6	6	6	6	6	6	6	6	6	6
-----														
SARNIA- DAVID	14151	A	79	6	6	6	6	6	6	6	6	6	6	6
SARNIA- CHRISTINA	14152	I	87	3	3	3	3	3	3	3	3	3	3	3
SARNIA- MIRA	14153	I	87	3	3	3	3	3	3	3	3	3	3	3
LONDON- FAIR GROUNDS	15001	A	70	6	6	6	6	6	6	6	6	6	6	6
ST THOMAS- ALEX'DRIA	15006	I	75	6	6	6	6	6	6	6	6	6	6	6
-----														
ST THOMAS- EDGEWARE	15008	I	81	6	6	6	6	6	6	6	6	6	6	6
LONGWOODS	15009	A	83	6	6	6	6	6	6	6	6	6	6	6
LONDON- POND MILLS	15014	A	86	6	6	6	6	6	6	6	6	6	6	6
LONDON- 951 COMMITTEE	15015	A	86	6	6	6	6	6	6	6	6	6	6	6
LONDON- 801 COMMITTEE	15016	A	86	6	6	6	6	6	6	6	6	6	6	6



TABLE A-3 (CONT.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS    TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY  
 W = WEEKDAY ONLY    S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4
-----														
LONDON- MOUNTSFIELD	15017	A	86	6	6	6	6	6	6	6	6	6	6	6
BEACHVILLE- ST ANTH'Y	17006	I	74	6										
BEACHVILLE- CYANAMIDE	17014	I	74	6										
INGERSOLL	17020	I	81	6										
EMBRO	17021	I	83	3										
-----														
JARVIS- JAMES	22087	A	80	6										
PORT DOVER- ST GEORGE	22090	A	83	6										
JARVIS- RAINHAM	22092	I	85	6										
NANTICOKE- WALPOLE	22904	I	84	6									6	6
NANTICOKE- RAINHAM	22907	I	84	6	6	6	6	6	6	6	6	6		
-----														
NANTICOKE- RD	22961	I	79	6										
NANTICOKE- GS	22964	I	84	6										
KITCHENER- EDNA	26029	A	76	6	6	6	6	6	6	6	6	6	6	6
ALLISTON- VIOLET HILL	26048	I	87	6										
ST CATHARINES- KING	27008	A	87	6	6	6	6	6	6	6	6	6	6	6
-----														
WELLAND- ALBERTA	27045	I	78	6										
PORT COLBORNE- DAVIS	27047	I	79	6						6				
NIAGARA F- VICTORIA	27050	I	79	6										
CHIPPAWA- NORTON	27051	I	79	6										
THOROLD- QUEEN	27052	I	82	6										
-----														
NIAGARA F- STANLEY	27055	I	82	6										
NIAGARA F- ALLENDALE	27056	A	83	6									6	6
GUELPH- HANLON	28027	I	81	6										
GUELPH- EXHIBITION	28028	A	86	6				6		6			6	6
FERGUS- ST GEORGE	28040	I	89	6										
-----														
FERGUS- NICHOLS	28041	I	89	6										
HAMILTON- ELGIN	29000	A	88	1										
HAMILTON- KENILWORTH	29009	A	69	6										
HAMILTON- BURLINGTON	29011	I	73	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- WELLINGTON	29012	A	69	6	6	6	6	6	6	6	6	6	6	6
-----														
HAMILTON- CHATHAM	29017	A	69	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- WENTWORTH	29025	I	69	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- HUGHSON	29067	A	73	6	6	6	6	6	6	6	6	6		
HAMILTON- CUMBERLAND	29087	A	79	6									6	6
HAMILTON- BARTON	29089	A	80	6										
-----														
HAMILTON- BEACH	29098	A	83	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- 29102	29102	A	85	1	6	6	6	6	6	6	6	6	6	6
GREENSVILLE- OFFIELD	29111	I	86	6										
GREENSVILLE- HARVEST	29112	I	87	6										
HAMILTON- GERTRUDE	29113	A	86	6										

SINGLE DIGITS = CYCLE DURATION IN DAYS  
TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY  
S = WEEKDAY ONLY S = SEASONAL

[illegible]

TABLE A-3 (CONT.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS TYP = A: AMBIENT SURVEY; 1: SOURCE SPECIFIC SURVEY  
 W = WEEKDAY ONLY S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4
KESWICK- CALDERARO	48142	I	85	W	W	W	W	W	W	W	W	W	W	W
DORSET- HWY 117	49011	A	87	1	1	1	1	1	1	1	1	1	1	1
PORT HOPE- SHUTER	58027	I	75	S	S	S	S	S	S	S	S	S	S	S
PORT HOPE- MARSH	58041	I	84	S	S	S	S	S	S	S	S	S	S	S
PORT HOPE- QUEEN	58042	I	84	S	S	S	S	S	S	S	S	S	S	S
RED LAKE-YONGE ST.	61015	I	88	6	6	6	6	6	6	6	6	6	6	6
BALMERTOWN- DICKENSON	61016	I	89	6	6	6	6	6	6	6	6	6	6	6
BALMERTOWN- DICKENSON	61017	I	89	6	6	6	6	6	6	6	6	6	6	6
ATIKOKAN- SCHOOL	62004	A	88	6	6	6	6	6	6	6	6	6	6	6
F FRANCES- COLONIZ'N	62032	A	76	6	6	6	6	6	6	6	6	6	6	6
F FRANCES- CHURCH ST	62035	A	74	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- ARCHIBALD	63005	A	70	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- DANSON	63012	A	70	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- ALGOMA	63022	A	69	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- MONTREAL	63046	I	78	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- WILLIAM	63052	A	80	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- JAMES ST	63200	A	86	6	6	6	6	6	6	6	6	6	6	6
SCHREIBER- KINGSWAY	63400	I	89	6	6	6	6	6	6	6	6	6	6	6
SCHREIBER- MANITOBA	63401	I	89	6	6	6	6	6	6	6	6	6	6	6
S.S.MARIE- BONNEY	71042	I	75	1	1	1	1	1	1	1	1	1	1	1
S.S.MARIE- QUEEN	71049	A	75	6	6	6	6	6	6	6	6	6	6	6
BLIND- RIVER- HOSPITAL	71065	A	82	6	6	6	6	6	6	6	6	6	6	6
S.S.MARIE- WM. SCHOOL	71068	A	87	6	6	6	6	6	6	6	6	6	6	6
S.S.MARIE- FIRST AV	71072	I	86	6	6	6	6	6	6	6	6	6	6	6
TIMMINS- MOM BLDG	72077	I	87	6	6	6	6	6	6	6	6	6	6	6
HEARST- LEBLANC	72080	I	87	6	6	6	6	6	6	6	6	6	6	6
NORTH BAY	75010	A	79	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- ASH	77016	A	69	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- LISGAR	77026	A	72	6	6	6	6	6	6	6	6	6	6	6
ESPANOLA- SPRUCE	77029	A	77	6	6	6	6	6	6	6	6	6	6	6
COPPER CLIFF- NICKEL	77070	I	76	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- TRAVERS	77222	A	89	2	2	2	2	2	2	2	2	2	2	2

Provincial Totals

152 55 53 58 63 56 57 84 52 58 58



TABLE A-4 LOCATIONS OF PARTICULATE (DAILY) STATIONS (1989)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
PUC BLDG, 64 WEST ST. GOODRICH	10015	A	74	43:45	81:43	6
CITY HALL, 444 WINDSOR AV WINDSOR	12002	A	69	42:19	83:02	15
7730 RIVERSIDE DR E WINDSOR	12005	A	78	42:20	82:57	10
BEACH LANE/Hwy 18 LA SALLE	12006	A	83	42:14	83:06	4
WRIGHT/WATER ST WINDSOR	12007	A	84	42:17	83:06	4
467 UNIVERSITY AV W WINDSOR	12008	A	70	42:19	83:03	8
9725 RIVERSIDE DR E LITTLE RIVER	12009	A	71	42:20	82:56	2
SEWAGE STN, MANNING RD WINDSOR	12010	A	71	42:20	82:52	1
DROUILLARD RD/RICHMOND ST WINDSOR	12011	A	88	42:19	83:00	1
FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	12013	A	71	42:19	83:00	6
SEWAGE STN, Hwy 18/PROSPECT WINDSOR	12015	A	71	42:17	83:05	5
COLLEGE/SOUTH ST WINDSOR	12016	A	75	42:18	83:04	4
1802 GEORGE AV WINDSOR	12036	A	77	42:19	82:59	5
3225 CALIFORNIA ST WINDSOR	12037	A	77	42:16	83:02	4
2885 HOWARD AV WINDSOR	12038	I	77	42:17	83:01	1
DOUGALL/E.C. ROW W WINDSOR	12039	I	78	42:17	83:01	5
DORWIN PLAZA, DOUGALL AV WINDSOR	12047	A	85	42:17	83:02	3
643 ALEXANDRINE WINDSOR	12049	A	85	42:17	83:01	1
604 CAPITOL/REMINGTON WINDSOR	12051	A	86	42:17	83:01	1
415 FRONT ST AMHERSTBURG	12053	A	81	42:08	83:07	14
POST OFFICE, 10 CENTRE ST CHATHAM	13003	A	69	42:24	82:11	12
26 FERGUSON ST THAMESVILLE	13007	I	89	42:55	81:97	1
RR 5 THAMESVILLE	13008	I	89	42:55	81:96	1
GENERAL HOSPITAL, 220 HITTON ST SARNIA	14001	A	62	42:58	82:24	15
HY40 (OPP LAMBERTON GS) COURTRIGHT	14016	A	69	42:48	82:29	4
R.R. #1 (W OF HOUSE) CORUNNA	14030	A	78	42:53	82:17	1
R.R. #1 (W OF BARN) MOORETOWN	14031	A	78	42:52	82:18	1
SARNIA YACHT CLUB, POINT EDWARD SARNIA	14054	A	66	43:00	82:25	5
ST CLAIR BLVD/Hwy 40 CORUNNA	14059	A	76	42:53	82:27	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	A	76	42:59	82:24	3
DAVID/FRONT ST SARNIA	14151	A	79	42:59	82:24	4
SARNIA POLICE STATION (ROOF)	14152	I	87	42:59	82:24	5
704 MARA ST, POINT EDWARD SARNIA	14153	I	87	42:59	82:24	9
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	A	70	42:59	81:13	4
16 ALEXANDRIA ST, ST THOMAS	15006	I	75	42:47	81:11	6
EDGEWARE RD (NNW VARTA PLT) ST THOMAS	15008	I	81	42:48	81:09	2
LONGWOODS CONSERVATION AUTHORITY	15009	A	83	42:53	81:29	2
POND MILLS RD/DEVERON CRES LONDON	15014	A	86	42:58	81:12	4
951 COMMISSIONERS RD E LONDON	15015	A	86	42:58	81:13	4
801 COMMISSIONERS RD E LONDON	15016	A	86	42:57	81:13	4

TABLE A-4 (CONT.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
8 MOUNTSFIELD DR LONDON	15017	A	86	42:58	81:15	4
ST ANTHONY'S SS, HWY 2 BEACHVILLE	17006	I	74	43:05	80:50	6
CYANAMIDE RD BEACHVILLE	17014	I	74	43:08	80:86	1
HWY 2 RR 2 (J SPIEL PROP) INGERSOLL	17020	I	81	43:04	80:51	2
OXFORD CITY RD 6 (HESSTON FARM) EMBRO	17021	I	83	43:06	80:52	1
JARVIS COMMUNITY CENTRE JAMES ST JARVIS	22087	A	80	42:53	80:07	4
ST GEORGE/ALMA PORT DOVER	22090	A	83	42:47	80:13	5
RAINHAM RD/SANDUSK RD JARVIS	22092	I	85	42:49	80:02	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	I	84	42:50	80:02	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	I	84	42:49	80:05	4
NANTICOKE RD/WALPOLE CON 2 NANTICOKE	22961	I	79	42:49	80:04	3
N 2 KM NANTICOKE GS NANTICOKE	22964	I	84	42:50	80:05	4
EDNA/FREDERICK STS KITCHENER	26029	A	76	43:27	80:28	5
MONO-MULMAR SCHOOL, HWY89/VIOLET HILL	26048	I	87	44:06	80:06	5
71 KING ST ST CATHARINES	27008	A	87	43:10	79:15	12
337 ALBERTA/DEVON ST WELAND	27045	I	78	42:58	79:15	1
DAVIS/FRAZER PORT COLBORNE	27047	I	79	42:53	79:15	3
4057 VICTORIA AV NIAGARA FALLS	27050	I	79	43:07	79:04	4
HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	27051	I	79	43:04	79:04	16
185 QUEEN ST S THOROLD	27052	I	82	43:07	79:12	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	I	82	43:08	79:05	4
ALLENDALE AV NIAGARA FALLS	27056	A	83	43:05	79:05	5
HANLON EXPWY/SPEED RIVER GUELPH	28027	I	81	43:31	80:16	6
EXHIBITION ST/CLARK ST GUELPH	28028	A	86	43:33	80:16	4
545 ST GEORGE ST FERGUS	28040	I	89	43:70	80:38	4
NICHOLS RD/GARAFAXA ST W FERGUS	28041	I	89	43:70	80:39	1
ELGIN/KELLY HAMILTON	29000	A	88	43:15	79:52	4
KENILWORTH HAMILTON	29009	A	69	43:15	79:49	6
BURLINGTON/LEEDS HAMILTON	29011	I	73	43:16	79:49	5
BURLINGTON/WELLINGTON HAMILTON	29012	A	69	43:16	79:51	7
CHATHAM/FRID HAMILTON	29017	A	69	43:15	79:54	5
BARTON/WENTWORTH HAMILTON	29025	I	69	43:16	79:51	4
450 HUGHSON ST N HAMILTON	29067	A	73	43:16	79:52	5
405 CUMBERLAND AV HAMILTON	29087	A	79	43:15	79:50	4
BARTON/NASH RD HAMILTON	29089	A	80	43:14	79:46	6
BAY/MAIN ST HAMILTON	29098	A	83	43:15	79:53	23
467 BEACH BLVD HAMILTON	29102	A	85	43:17	79:47	4
OFFIELD RD/HWY 5 GREENSVILLE	29111	I	86	43:18	79:59	1
HARVEST RD/WESITE GREENSVILLE	29112	I	87	43:17	79:59	1
GERTRUDE/DEPEW HAMILTON	29113	A	86	43:15	79:49	4

TABLE A-4 (CONT.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
VICKERS RD/EAST 18TH ST HAMILTON	29114	A	85	43:14	79:52	3
MAIN ST/W HWY 403 HAMILTON	29118	A	85	43:15	79:54	3
MORLEY ST/PARKDALE AV HAMILTON	29119	A	86	43:15	79:47	4
DUNDURN YRK HAMILTON	29122	A	87	43:16	79:53	10
BUCHANN PARK SCHOOL, LAURIER AVE (ROOF) H	29124	A	88	43:14	79:53	4
EVEN RD/HITNEY AV HAMILTON	29130	A	87	43:15	79:56	1
ALBRIGHT RD/JMT ALBION RD HAMILTON	29135	A	87	43:13	79:48	8
BRUCE PS, 51 LARCHMOUNT AV TORONTO	31045	I	86	43:40	79:20	6
MOSLEY/LESLIE STS TORONTO	31058	I	73	43:40	79:20	5
A-R-CLARKE CO. 633 EASTERN AVE. TORONTO	31065	I	87	43:40	79:20	12
WORKS DEPT, 138 HAMILTON AV TORONTO	31082	I	74	43:40	79:21	5
TECUMSETH/NIAGARA ST TORONTO	31085	I	79	43:38	79:24	5
26 BREADALBANE TORONTO	31104	A	81	43:40	79:23	15
PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	31120	A	81	43:39	79:27	9
60 BATHURST ST TORONTO	31181	I	83	43:39	79:24	6
FORT YORK, TORONTO	31183	I	87	43:38	79:24	3
LEASIDE HYDRO STATION EAST YORK	32010	A	87	43:42	79:21	1
LAWRENCE/KENNEDY SCARBORO	35003	A	70	43:45	79:16	4
HENDON AVE (YONGE ST/FINCH AVE) NORTH YORK	34020	A	87	43:47	79:25	5
35 EDGAR AVE NORTH YORK	34025	A	87	43:43	79:32	5
ELMCREST RD (CENTENNIAL PK) ETOBICOKE	35003	A	69	43:39	79:35	4
EVANS/ARNOLD AV ETOBICOKE	35033	A	69	43:37	79:31	3
RESOURCES RD (MOL LAB) ETOBICOKE	35051	A	80	43:43	79:33	11
CLEARVIEW HEIGHTS YORK	36030	A	87	43:42	79:29	5
2487 LAKESHORE RD. E OAKVILLE	44005	I	86	43:29	79:38	10
HWY 2/NORTH SHORE BLVD E BURLINGTON	44008	A	79	43:19	79:48	17
BRONTE RD/HOBURN CRES OAKVILLE	44015	I	80	43:24	79:44	5
FIRE HALL, BAYLY/BROCK PICKERING	45001	I	70	43:50	79:04	1
AJAX-PICKERING HOSP AJAX	45007	I	75	43:50	79:01	15
PS, RITSON RD/OLIVE AV OSHAWA	45025	A	79	43:53	78:51	5
FIRE HALL, BRAMALEA RD BRAMALEA	46033	A	69	43:42	79:42	3
2414 DIXIE RD MISSISSAUGA	46041	I	72	43:36	79:35	5
2365 DIXIE RD MISSISSAUGA	46045	I	73	43:36	79:35	5
2360 DIXIE RD MISSISSAUGA	46046	I	73	43:36	79:35	12
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	A	78	43:34	79:37	5
POST OFFICE ORILLIA	47019	A	77	41:61	79:42	10
ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	47042	A	82	44:23	79:42	12
HWY47/E OF HWY48 STOUFFVILLE	48002	A	80	43:58	79:16	5
CON 5 (BROWN PROP) KESWICK	48140	I	85	44:13	79:25	1
RR2 (INGHAM PROP) KESWICK	48141	I	85	44:13	79:25	1



TABLE A-4 (CONT.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
RR2 (CALDERARO PROP) KESWICK	48042	I	85	44:13	79:26	1
HWY117 PAINT LAKE ROAD DORSET	49011	A	87	45:13	78:56	1
51 SHUTER ST PORT HOPE	58027	I	75	43:57	78:17	4
FILT PLT, MARSH ST PORT HOPE	58041	I	84	43:57	78:18	1
CAN TIRE, QUEEN ST PORT HOPE	58042	I	84	43:57	78:18	1
18 YOUNG STREET - RED LAKE	61015	I	88	51:06	81:49	1
98 DICKENSON RD BALMERTOWN	61016	I	89	51:05	87:74	1
DICKENSON MINES LTD BALMERTOWN	61017	I	89	51:06	87:73	1
ATIUKOKAN S.S. ATIUKOKAN	62004	A	88	48:46	91:34	4
CENETERY, COLONIZATION RD W FORT FRANCES	62032	A	76	48:37	93:25	5
250 CHURCH ST FORT FRANCES	62035	A	74	48:36	93:23	9
HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	63005	A	70	48:23	89:15	9
DAWSON CT/ALGOMA ST N THUNDER BAY	63012	A	70	48:27	89:12	9
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	A	69	48:26	89:13	22
CAN-CAR, MONTREAL ST THUNDER BAY	63046	I	78	48:21	89:18	3
TRANSIT MAINT BD, WILLIAM RD THUNDER BAY	63052	A	80	48:25	89:14	9
MTC 615 JAMES ST S THUNDER BAY	63200	A	86	48:23	89:17	3
5 KINGSWAY ST SCHREIBER	63400	I	89	48:81	87:26	2
101 MANITOBA ST SCHREIBER	63401	I	89	48:80	87:27	2
PUMPHOUSE, BONNEY ST SAULT STE MARIE	71042	I	75	46:31	84:23	1
LAND OFFICE, QUEEN ST SAULT STE MARIE	71049	A	75	46:31	84:20	6
HOSPITAL, LAKESHORE AV BLIND RIVER	71065	A	82	46:11	82:58	12
WM. MERRIFIELD SCHOOL SAULT STE MARIE	71068	A	87	46:32	84:21	3
FIRST AV/SECOND LINE SAULT STE MARIE	71072	I	86	46:32	84:22	2
MINISTRY OF HEALTH BLDG TIMMINS	72077	I	84	48:28	81:20	5
CUSTOM SAWMILL RD (LEBLANC PROP) HEARST	72080	I	87	49:41	83:39	5
OPP STN NORTH BAY	75010	A	79	46:19	79:27	4
WATER TANK, ASH ST SUBURBY	77016	A	69	46:30	81:00	3
19 LITGAR ST SUBURBY	77026	A	72	46:30	81:00	14
POST OFFICE, SPRUCE/BARBER ST ESPANOLA	77029	A	77	46:16	81:46	6
PUMPHOUSE, NICKEL ST COPPER CLIFF	77070	I	76	46:28	81:04	5
TRAVERS ST SUBURBY	77222	A	89	46:49	81:02	2

TABLE A-5 METEOROLOGICAL NETWORK (1989)

ONTARIO METEOROLOGICAL NETWORK AS OF 31-DEC-89, HOURLY DATA

YR - YEAR MONITORING BEGAN				T - TELEMETRY									
STATION NAME	ID	YR	LAT	LONG	WS1	HT1	WS2	HT2	WS3	HT3	TEM	DT1	DT2
WINDSOR- WRIGHT	12007	84	42:17	82:16	T	10	T	40	-	-	T	-	-
MERLIN	13021	77	42:15	82:13	T	9	-	-	-	-	-	-	-
COURTRIGHT- HWY 40	14016	69	42:48	82:29	T	10	T	30	T	90	T	T	T
PARKHILL	15013	83	43:10	81:41	T	10	-	-	-	-	-	-	-
TIVERTON- COW RD 2	18013	79	44:18	81:35	T	10	T	30	T	100	T	T	T
JARVIS	22883	84	42:54	80:05	T	10	-	-	T	85	T	-	-
LONG POINT	22901	79	42:35	80:23	T	10	-	-	T	85	T	-	-
ORANGEVILLE	26048	89	44:06	80:06	T	10	-	-	-	-	-	-	-
ALLANBURG	27011	81	43:04	79:11	T	10	T	37	-	-	T	T	-
HAMILTON- WOODWARD	29026	69	43:15	79:46	T	10	T	30	T	91	T	T	T
TORONTO- ISLAND *	31025	75	43:38	79:23	T	10	-	-	-	-	-	-	-
TORONTO- BRUCE PS	31045	75	43:39	79:25	T	21	-	-	-	-	-	-	-
TORONTO- JUNCTION	31120	82	43:40	79:27	T	18	-	-	-	-	-	-	-
SCARBORO- LAWRENCE	33003	70	43:45	79:16	T	12	-	-	T	76	T	-	-
ETOBICOKE- EVANS	35033	67	43:37	79:31	T	10	T	30	T	91	T	T	T
OAKVILLE	44015	80	43:24	79:44	T	10	-	-	-	-	-	-	-
OSHAWA	45025	79	43:53	78:51	T	10	-	-	-	-	-	-	-
STOUFFVILLE	48002	74	43:58	79:16	T	10	-	-	-	-	-	-	-
CORNWALL- 861 W. 2ND	56065	79	45:01	74:44	T	9	-	-	-	-	-	-	-
PORT HOPE	58031	79	43:56	78:18	T	10	-	-	-	-	-	-	-
DRYDEN	61027	84	49:47	92:50	T	18	-	-	-	-	-	-	-
F. FRANCES- COLONIZ'N	62032	76	48:37	93:25	T	10	-	-	-	-	-	-	-
MARATHON- PENINSULA	63034	82	48:43	86:23	T	12	-	-	-	-	-	-	-
RED ROCK	63084	81	48:57	88:15	T	12	-	-	-	-	-	-	-
TERRACE BAY	63090	81	48:47	89:19	T	12	-	-	-	-	-	-	-
SCHREIBER	63402	89	48:80	87:27	T	12	-	-	-	-	-	-	-
ELLIOT LAKE	71060	83	46:25	88:40	T	15	-	-	-	-	-	-	-
S.S.MARIE- WM. S	71068	87	46:32	84:21	T	10	-	-	-	-	T	-	-
HOYLE/TIMMINS	72089	87	48:33	81:04	T	10	-	-	-	-	T	-	-
NORTH BAY	75010	79	46:19	79:27	T	10	-	-	-	-	T	-	-
HANMER	77013	73	46:39	80:57	T	10	-	-	-	-	T	-	-
SUBURY- CKMC	77025	82	46:30	81:00	T	10	-	-	-	T	115	T	-

\* ENVIRONMENT CANADA SITE

WS1 - WIND SPEED AND DIRECTION BELOW 23 M  
 WS2 - WIND SPEED AND DIRECTION 23 M TO 76 M  
 WS3 - WIND SPEED AND DIRECTION ABOVE 76 M  
 TEM - AMBIENT TEMPERATURE  
 DT1 - TEMPERATURE DIFFERENCE LEVEL 2 MINUS LEVEL 1  
 DT2 - TEMPERATURE DIFFERENCE LEVEL 3 MINUS LEVEL 1  
 HT1 - SENSOR HEIGHT (METRES) LEVEL 1  
 HT2 - SENSOR HEIGHT (METRES) LEVEL 2  
 HT3 - SENSOR HEIGHT (METRES) LEVEL 3

TABLE A-6 SULPHUR DIOXIDE (SO<sub>2</sub>) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989		POLLUTANT - SULPHUR DIOXIDE			UNIT = PARTS/MILLION							
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR	NO. OF TIMES ABOVE CRITERIA 1HR 24HR 1YR	
12007	WRIGHT/WATER ST WINDSOR	342	.000	.000	.000	.005	.014	.030	.007	0.14 0.03	0	0 0
12008	467 UNIVERSITY AV W WINDSOR	352	.000	.000	.002	.007	.017	.039	.008	0.11 0.04	0	0 0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	360	.000	.000	.000	.003	.010	.029	.005	0.09 0.02	0	0 0
12016	COLLEGE/SOUTH ST WINDSOR	365	.000	.000	.003	.008	.017	.036	.009	0.11 0.03	0	0 0
12048	MALDEN RD (S LAURIER DR) WINDSOR	347	.000	.000	.000	.003	.009	.030	.005	0.08 0.03	0	0 0
14016	HWY40 (OPP LAMTON GS) COURTRIGHT	356	.000	.000	.000	.000	.009	.068	.005	0.33 0.06	1	0 0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	357	.000	.000	.000	.001	.017	.096	.008	0.24 0.06	0	0 0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	322	.000	.000	.000	.005	.012	.028	.006	0.06 0.03	0	0 0
15015	951 COMMISSIONERS RD E LONDON	181	.000	.000	.000	.000	.000	.011	.001	0.09 0.01	0	0 INS
15016	801 COMMISSIONERS RD E LONDON	181	.000	.000	.000	.000	.006	.023	.002	0.08 0.03	0	0 INS
15017	8 MOUNTSFIELD DR LONDON	152	.000	.000	.000	.000	.000	.011	.001	0.05 0.01	0	0 INS
18007	CONCESSION RD 2 LOT A TIVERTON	344	.000	.000	.000	.000	.005	.020	.002	0.08 0.03	0	0 0
22071	EXPERIMENTAL FARM SINCOE	354	.000	.000	.000	.003	.009	.026	.005	0.14 0.02	0	0 0
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	351	.000	.000	.000	.004	.014	.049	.007	0.25 0.05	0	0 0
22094	TOWNLIN RD/CON 13 TOWNSEND	358	.000	.000	.000	.000	.008	.022	.003	0.17 0.02	0	0 0

TABLE A-6 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - SULPHUR DIOXIDE	NO. OF DAYS	PERCENTILES					UNIT = PARTS/MILLION			NO. OF TIMES ABOVE CRITERIA	
					10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR	1HR	24HR 1YR
22901	PROVINCIAL PARK LONG POINT			364	.000	.000	.000	.000	.008	.027	.004	0.16	0.03	0 0 0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE			357	.000	.000	.000	.004	.013	.051	.007	0.16	0.04	0 0 0
26029	EDNA/FREDERICK STS KITCHENER			365	.000	.000	.000	.000	.006	.018	.003	0.05	0.02	0 0 0
26045	WEBER/UNIVERSITY ST WATERLOO			357	.000	.000	.000	.004	.009	.019	.005	0.05	0.02	0 0 0
27051	HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA			156	.000	.000	.000	.000	.008	.026	.003	0.07	0.02	0 0 INS
27052	185 QUEEN ST S THOROLD			365	.000	.000	.005	.012	.046	.162	.020	0.30	0.13	6 3 0
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS			360	.000	.000	.000	.005	.016	.044	.007	0.11	0.06	0 0 0
27056	ALLENDALE AV NIAGARA FALLS			365	.000	.000	.000	.004	.009	.026	.005	0.08	0.02	0 0 0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES			363	.000	.000	.000	.004	.010	.027	.006	0.10	0.03	0 0 0
28028	EXHIBITION ST/CLARK ST GUELPH			359	.000	.000	.000	.002	.008	.019	.004	0.07	0.02	0 0 0
29000	ELGIN/KELLY ST HAMILTON			364	.000	.000	.003	.008	.019	.055	.010	0.21	0.06	0 0 0
29025	BARTON/WENTWORTH HAMILTON			363	.000	.000	.004	.008	.022	.053	.012	0.15	0.04	0 0 0
29102	467 BEACH BLVD HAMILTON			346	.000	.000	.005	.011	.030	.066	.014	0.13	0.06	0 0 0
29105	NASH RD/KENTLEY DR HAMILTON			365	.000	.000	.000	.004	.010	.030	.006	0.15	0.02	0 0 0
29114	VICKERS RD/EAST 18TH ST HAMILTON			365	.000	.000	.002	.007	.010	.040	.009	0.14	0.03	0 0 0



TABLE A-6 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989		POLLUTANT - SULPHUR DIOXIDE				UNIT = PARTS/MILLION					NO. OF TIMES ABOVE CRITERIA			
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	1HR	24HR	1YR
29118	MAIN ST W/HWY403 HAMILTON	365	.000	.000	.000	.003	.010	.028	.005	0.20	0.03	0	0	0
31104	26 BREADALBANE TORONTO	362	.000	.000	.001	.006	.014	.036	.008	0.12	0.03	0	0	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	363	.000	.000	.003	.007	.014	.033	.009	0.11	0.04	0	0	0
31190	CN TOWER, 301 FRONT ST W TORONTO	334	.000	.000	.000	.001	.016	.067	.007	0.37	0.07	3	0	0
32010	LEASIDE HYDRO STATION EAST YORK	337	.000	.000	.000	.003	.009	.033	.005	0.15	0.03	0	0	0
33003	LAWRENCE/KENNEDY SCARBORO	361	.000	.000	.000	.003	.010	.036	.006	0.14	0.03	0	0	0
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	365	.000	.000	.000	.000	.001	.016	.001	0.08	0.02	0	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	365	.000	.000	.000	.000	.005	.019	.002	0.12	0.02	0	0	0
34020	HELDON AVE (YONGE/FINCH) NORTH YORK	365	.000	.000	.000	.004	.009	.034	.006	0.13	0.03	0	0	0
34025	35 EDGAR AVE NORTH YORK WEST	355	.000	.000	.000	.003	.010	.046	.006	0.21	0.04	0	0	0
35003	ELMGREST RD (CENTENNIAL PK) ETOBICOKE	346	.000	.000	.000	.000	.009	.039	.005	0.24	0.03	0	0	0
35005	QUEENSWAY HOSPITAL ETOBICOKE	365	.000	.000	.000	.003	.009	.026	.005	0.18	0.03	0	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	365	.000	.001	.004	.008	.016	.029	.010	0.09	0.03	0	0	0
35050	125 RESOURCES RD (HOE LAB) ETOBICOKE	196	.000	.000	.000	.000	.006	.018	.002	0.15	0.02	0	0	INS
36030	CLEARVIEW HTGS/KEELE ST YORK	351	.000	.000	.003	.007	.015	.042	.009	0.22	0.03	0	0	0

TABLE A-6 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - SULPHUR DIOXIDE				UNIT = PARTS/MILLION						NO. OF TIMES ABOVE CRITERIA		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	1YR	
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	362	.000	.000	.001	.006	.010	.026	.007	0.10	0.02	0	
44015	BRONTE RD/WOBURN CRES OAKVILLE	365	.000	.000	.000	.004	.012	.035	.006	0.10	0.03	0	
45025	PS, RITSON RD/OLIVE AV OSHAWA	365	.000	.000	.000	.004	.009	.024	.006	0.06	0.02	0	
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	363	.000	.000	.000	.000	.008	.036	.004	0.23	0.04	0	
46117	MEADOW PK, APPLE LANE CLUB MISSISSAUGA	365	.000	.000	.000	.005	.011	.031	.007	0.11	0.04	0	
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	347	.000	.000	.000	.000	.000	.016	.001	0.09	0.02	0	
48002	HWY47/E OF HWY48 STOUFFVILLE	365	.000	.000	.000	.000	.008	.021	.004	0.09	0.03	0	
49010	HWY 117/PAINT LAKE RD DORSET	159	.000	.000	.000	.000	.005	.019	.002	0.14	0.01	0	
51001	MCD GDS, RIDEAU/WURTEMBURG ST OTTAWA	359	.000	.000	.000	.000	.007	.019	.003	0.11	0.03	0	
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	.000	.000	.000	.000	.018	.071	.007	0.52	0.06	1	
59006	CITY HALL, 500 GEORGE ST PETERBORO	359	.000	.000	.000	.000	.004	.017	.002	0.08	0.02	0	
61014	SEWAGE TREATMENT PLT BALMERTOWN	334	.000	.000	.000	.000	.000	.245	.009	0.56	0.23	75	
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	356	.000	.000	.000	.000	.000	.000	.000	0.02	0.00	0	
63200	MTC 615 JAMES ST S THUNDER BAY	365	.000	.000	.000	.000	.000	.008	.000	0.03	0.01	0	
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	336	.000	.000	.000	.000	.006	.034	.003	0.11	0.03	0	

TABLE A-6 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - SULPHUR DIOXIDE	NO. OF DAYS	PERCENTILES					UNIT = PARTS/MILLION			NO. OF TIMES ABOVE CRITERIA	
					10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	1HR
	71070	WAMA MOTOR INN WAMA		360	.000	.000	.000	.000	.004	.163	.006	0.72	0.15	45
	72089	RR 1 LOT 11 CONC 1 MATHESON TWP HOYLE		364	.000	.000	.000	.000	.009	.143	.007	0.44	0.08	13
	75010	OPP STN NORTH BAY		359	.000	.000	.000	.000	.005	.020	.002	0.07	0.02	0
	77012	SKEAD SUDBURY		365	.000	.000	.000	.000	.018	.163	.010	0.58	0.10	36
	77013	HANMER SUDBURY		365	.000	.000	.000	.000	.008	.104	.006	0.49	0.07	17
	77016	WATER TANK, ASH ST SUDBURY		357	.000	.000	.000	.000	.019	.114	.009	0.57	0.07	16
	77028	GOVERNMENT RD/EDWARD ST CONISTON		363	.000	.000	.000	.000	.001	.028	.002	0.09	0.03	0
	77065	FALCONBRIDGE RD GARSON		364	.000	.000	.000	.000	.011	.127	.007	0.46	0.07	17
	77075	KENNEDY ST NEW SUDBURY		361	.000	.000	.000	.000	.015	.125	.008	0.68	0.09	21
	77096	LONG LAKE RD (VILLA LOYOLA) SUDBURY		365	.000	.000	.000	.000	.010	.143	.008	1.17	0.14	36
	77201	MIKKOLA (J. HAMILTON SCHOOL) SUDBURY		363	.000	.000	.000	.000	.009	.134	.007	1.34	0.17	37
	77203	SCIENCE NORTH SUDBURY		365	.000	.000	.000	.000	.013	.108	.008	1.11	0.07	18
	77206	ST LAURENT/REGIONAL RD RAYSIDE		363	.000	.000	.000	.000	.005	.061	.004	0.43	0.04	6
	77218	LOT 2-PLAN M-1025 COPPER CLIFF		360	.000	.000	.000	.000	.002	.041	.020	0.95	0.20	143
	77220	GATCHELL SUDBURY		362	.000	.000	.000	.000	.003	.017	.010	0.76	0.11	23

TABLE A-7 10-YEAR TREND FOR SO<sub>2</sub>

City	Annual Mean (ppm)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
BURLINGTON	.005	.007	.005	.005	.005	.004	.004	.004	.004	.007
CORNWALL	.012	.010	.010	.008	.009	.009	.008	.006	.006	.007
ETOBICOKE	.008	.008	.006	.006	.007	.007	.005	.005	.006	.005
HAMILTON	.013	.010	.014	.014	.015	.009	.008	.007	.008	.010
KITCHENER	.005	.003	.003	.002	.003	.002	.003	.004	.003	.003
LONDON	.005	.009	.004	.003	.004	.002	.003	.003	.004	.006
LONG POINT	.006	.004	.003	.002	.002	.002	.002	.002	.002	.003
MISSISSAUGA	.005	.006	.006	.006	.006	.006	.007	.009	.004	.004
NIAGARA FALLS	.007	.004	.003	.003	.004	.003	.003	.002	.005	.005
NORTH BAY	.004	.002	.003	.002	.003	.002	.002	.002	.002	.002
NORTH YORK	.010	.010	.012	.006	.009	.008	.005	.002	.002	.002
OAKVILLE	.007	.005	.007	.005	.007	.006	.005	.003	.005	.006
OSHAWA	.007	.004	.004	.003	.005	.003	.003	.004	.006	.006
OTTAWA	.004	.005	.004	.002	.002	.002	.002	.001	.002	.003
PETERBOROUGH	.004	.003	.003	.002	.003	.002	.002	.002	.002	.002
SARNIA	.013	.014	.012	.010	.009	.011	.008	.007	.009	.008
SCARBOROUGH	.008	.007	.004	.003	.004	.003	.003	.004	.008	.006
SIMCOE	.007	.004	.004	.003	.004	.005	.003	.003	.005	.005
ST CATHARINES	.004	.007	.005	.005	.005	.006	.005	.010	.011	.006
STOUFFVILLE	.003	.003	.003	.005	.005	.004	.002	.002	.003	.004
SUDBURY	.016	.010	.010	.009	.010	.010	.008	.009	.010	.008
THUNDER BAY	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000
TIVERTON	.003	.003	.001	.003	.007	.002	.001	.001	.003	.002
TORONTO	.007	.008	.006	.004	.006	.004	.004	.004	.007	.008
WINDSOR	.011	.012	.009	.008	.007	.007	.008	.008	.011	.008



TABLE A-8 SUSPENDED PARTICLES (SP) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989		POLLUTANT - SOILING INDEX					UNIT = COHS/1000 FT					NO. OF TIMES ABOVE CRITERIA 24HR 1YR
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC MEAN	MAXIMUM			
			10	30	50	70	90		99	1HR	24HR	
-----												
12008	467 UNIVERSITY AV W WINDSOR	346	0.06	0.17	0.27	0.41	0.73	1.58	0.40	3.5	1.5	6 0
12016	COLLEGE/SOUTH ST WINDSOR	363	0.06	0.16	0.25	0.38	0.69	1.87	0.40	4.8	2.1	8 0
12038	2885 HOWARD AV WINDSOR	65	0.06	0.19	0.29	0.43	0.74	1.57	0.42	3.8	1.2	1 INS
12039	DOUGLAS ST/E.C. ROW W WINDSOR	42	0.09	0.20	0.33	0.47	0.83	2.24	0.48	4.3	1.4	1 INS
12049	643 ALEXANDRINE WINDSOR	71	0.02	0.11	0.18	0.27	0.50	1.17	0.29	2.6	0.7	0 INS
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	347	0.01	0.09	0.19	0.31	0.57	1.17	0.30	3.6	1.4	3 0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	349	0.03	0.11	0.21	0.34	0.59	1.41	0.33	4.6	1.8	5 0
15009	LONGWOODS CONSERVATION LONGWOODS	354	0.00	0.01	0.06	0.11	0.24	0.51	0.13	1.9	0.5	0 0
222907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	322	0.01	0.08	0.15	0.25	0.45	0.82	0.25	2.4	0.8	0 0
26045	WEBER/UNIVERSITY ST WATERLOO	338	0.00	0.07	0.14	0.23	0.40	0.89	0.23	1.9	1.0	0 0
26048	MONO-MULAR SCHOOL HWY89/VIOLET HILL	126	0.00	0.02	0.10	0.23	0.49	0.89	0.22	1.9	0.8	0 INS
27052	185 QUEEN ST S THOROLD	357	0.10	0.17	0.25	0.33	0.51	0.88	0.33	1.8	0.9	0 0
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	348	0.04	0.16	0.27	0.41	0.69	1.29	0.38	3.0	1.1	1 0
27056	ALLENDALE AV NIAGARA FALLS	345	0.02	0.08	0.16	0.25	0.43	0.87	0.25	2.2	0.9	0 0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	355	0.01	0.09	0.16	0.25	0.45	0.95	0.25	1.8	0.9	0 0

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - SOILING INDEX			UNIT = COHS/1000 FT										MAXIMUM 1HR 24HR		NO. OF TIMES ABOVE CRITERIA 24HR 1YR		
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC MEAN	99	90	70	50	30	10		
28028	EXHIBITION ST/CLARK ST GUELPH	349	0.00	0.05	0.12	0.20	0.37	0.87	0.21									2.6 1.0 0 0
29000	ELGIN/KELLY ST HAMILTON	360	0.09	0.21	0.34	0.53	0.98	1.93	0.50									3.9 1.8 23 0
29001	HUGHSON/HUNTER HAMILTON	359	0.04	0.18	0.31	0.48	0.87	1.73	0.45									4.3 1.6 15 0
29025	BARTON/WENTWORTH HAMILTON	355	0.07	0.19	0.32	0.49	0.85	1.59	0.45									3.2 1.5 10 0
29102	467 BEACH BLVD HAMILTON	274	0.06	0.23	0.44	0.69	1.10	1.97	0.58									3.8 1.8 20 1
29105	NASH RD/KENTLEY DR HAMILTON	364	0.03	0.12	0.19	0.30	0.56	1.27	0.31									3.1 1.1 1 0
29114	VICKERS RD/EAST 18TH ST HAMILTON	361	0.02	0.11	0.18	0.29	0.54	1.19	0.29									2.0 0.9 0 0
29118	MAIN ST W/HWY403 HAMILTON	360	0.03	0.13	0.23	0.39	0.77	1.54	0.38									2.5 1.4 3 0
31049	MISSION, 381 YONGE ST TORONTO	348	0.15	0.35	0.54	0.80	1.35	2.40	0.72									4.7 2.4 53 1
31104	26 BREADALBANE TORONTO	356	0.05	0.16	0.25	0.38	0.67	1.31	0.37									3.2 1.5 7 0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	364	0.04	0.16	0.26	0.39	0.74	1.78	0.40									4.7 2.1 8 0
31190	CN TOWER, 301 FRONT ST W TORONTO	354	0.00	0.00	0.05	0.12	0.26	0.63	0.13									1.4 0.5 0 0
32010	LEASIDE HYDRO STATION EAST YORK	361	0.02	0.13	0.23	0.39	0.84	1.89	0.40									4.1 2.1 13 0
33003	LAWRENCE/KENNEDY SCARBORO	360	0.04	0.17	0.28	0.44	0.79	1.60	0.42									3.9 1.8 7 0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	348	0.00	0.11	0.23	0.39	0.77	1.44	0.37									4.4 1.4 6 0

TABLE A-8 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT								
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR	NO. OF TIMES ABOVE CRITERIA 24HR 1YR
			10	30	50	70						
34025	35 EDGAR AVE NORTH YORK WEST	335	0.00	0.12	0.27	0.50	0.95	1.71	0.44	3.3	1.5	12 0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	329	0.00	0.09	0.19	0.32	0.63	1.60	0.32	2.9	1.5	7 0
35033	EVANS/ARNOLD AV ETOBICOKE	357	0.10	0.25	0.42	0.65	1.12	2.38	0.59	4.9	2.4	32 1
36030	CLEARVIEW HTGS/KEELE ST YORK	345	0.05	0.17	0.28	0.44	0.85	2.26	0.45	4.9	2.5	12 0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	349	0.02	0.13	0.25	0.42	0.86	1.83	0.41	3.9	1.7	16 0
44015	BRONTE RD/WOBURN CRES OAKVILLE	365	0.00	0.08	0.19	0.36	0.81	1.89	0.36	3.9	1.5	12 0
45025	PS, RITSON RD/OLIVE AV OSHANA	357	0.00	0.11	0.22	0.39	0.77	1.55	0.37	3.7	1.9	4 0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	363	0.02	0.11	0.21	0.35	0.71	1.97	0.37	4.1	2.0	8 0
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	334	0.01	0.11	0.22	0.38	0.72	1.46	0.35	3.9	1.5	3 0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	361	0.00	0.00	0.01	0.07	0.25	0.77	0.11	2.3	0.8	0 0
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	346	0.00	0.09	0.20	0.35	0.69	1.71	0.34	3.2	1.3	4 0
75010	OPP STN NORTH BAY	353	0.00	0.05	0.13	0.24	0.59	1.41	0.27	3.0	1.2	2 0
77203	SCIENCE NORTH SUDBURY	351	0.00	0.04	0.08	0.16	0.33	0.89	0.18	1.9	1.3	1 0

TABLE A-9 10-YEAR TREND FOR SP

City	Annual Mean (COH/1000 ft.)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CORNWALL	.18	.10	.16	.18	.16	.09	.06	.04	.10	.11
ETOBICOKE	.42	.31	.49	.37	.52	.47	.54	.52	.43	.32
HAMILTON	.54	.58	.57	.44	.55	.52	.57	.55	.46	.50
LONDON	.33	.30	.32	.31	.29	.30	.30	.27	.25	.33
NIAGARA FALLS	.22	.25	.22	.20	.22	.20	.18	.20	.32	.25
NORTH YORK	.48	.54	.60	.57	.62	.56	—	—	.34	.41
OSHAWA	.31	.31	.41	.33	.40	.37	.33	.37	.31	.37
OTTAWA	.14	.18	.18	.18	.19	.14	.15	.19	.23	.36
SARNIA	.27	.28	.27	.27	.29	.25	.31	.29	.24	.30
SCARBOROUGH	.35	.40	.37	.32	.36	.34	.34	.38	.37	.42
SUDBURY	.13	.12	.12	.12	.15	.13	.16	.16	.21	.18
ST CATHARINES	.31	.32	.29	.27	.24	.26	.24	.27	.23	.25
TORONTO	.34	.45	.46	.41	.47	.36	.39	.38	.34	.37
WINDSOR	.42	.41	.43	.47	.46	.41	.43	.37	.44	.40



TABLE A-10 TOTAL REDUCED SULPHUR (TRS) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989		POLLUTANT - TOTAL REDUCED SULPHUR				UNIT = PARTS/BILLION							
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES				ARITH- METIC MEAN	MAXIMUM 1HR	24HR	EXCEEDANCES OF PULP MILL CRIT 1 HR	
-----													
12007	WRIGHT/WATER ST WINDSOR	343	0.0	0.0	0.2	0.8	3.2	18.5	1.7	80	16	35	
12016	COLLEGE/SOUTH ST WINDSOR	362	0.0	0.0	0.3	0.8	2.0	7.7	1.2	29	6	1	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	356	0.0	0.0	0.1	0.6	1.5	3.2	0.8	8	4	0	
18007	CONCESSION RD 2 LOT A TIVERTON	301	0.0	0.0	0.0	0.3	0.8	1.7	0.4	6	2	0	
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	343	0.0	0.0	0.0	0.5	1.0	3.1	0.6	15	3	0	
22904	MALPOLE S PS, SANDUSK RD NANTICOKE	360	0.0	0.0	0.1	0.6	1.0	4.4	0.7	12	3	0	
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	357	0.0	0.0	0.0	0.5	2.6	10.7	1.1	141	16	6	
27052	185 QUEEN ST S THOROLD	347	0.0	0.0	0.2	1.7	14.4	55.5	4.9	144	40	462	
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	279	0.0	0.0	0.5	1.7	5.6	24.8	2.5	52	21	47	
29000	ELGIN/KELLY ST HAMILTON	359	0.0	0.0	0.0	0.5	1.9	6.5	0.8	33	6	1	
29025	BARTON/WENTWORTH HAMILTON	354	0.0	0.0	0.2	0.8	2.9	8.8	1.2	27	6	0	
29102	467 BEACH BLVD HAMILTON	332	0.0	0.3	1.0	2.5	5.4	12.2	2.4	32	12	3	
29114	VICKERS RD/EAST 18TH ST HAMILTON	357	0.0	0.0	0.0	0.6	1.6	5.2	0.8	16	4	0	
29118	MAIN ST W/HWY403 HAMILTON	349	0.0	0.0	0.0	0.6	1.9	7.0	0.9	15	8	0	
44015	BRONTE RD/WOBURN CRES OAKVILLE	365	0.0	0.0	0.4	1.0	1.9	3.8	1.1	20	4	0	

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - TOTAL REDUCED SULPHUR	NO. OF DAYS	PERCENTILES							UNIT = PARTS/BILLION		EXCEEDANCES OF PULP MILL CRIT	
					10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	1 HR	1 HR
46117		MEADOW PK, APPLE LANE CLUB MISSISSAUGA		353	0.0	0.0	0.1	0.6	1.2	3.5	0.8	33	8	1	
56051		MEMORIAL PK, BEDFORD/THIRD STS CORNWALL		363	0.0	0.9	2.1	3.3	5.4	22.5	3.4	134	15	65	
56068		SCHOOL, 435 SECOND ST W CORNWALL		359	0.0	0.7	2.2	4.3	10.2	40.4	5.0	359	25	201	
56071		ST. PETER'S SCHOOL CORNWALL		179	0.0	0.1	0.9	3.6	19.8	89.4	7.6	223	43	322	
61027		35 VAN HORNE AV DRYDEN		362	0.0	0.0	0.0	0.0	0.6	6.5	0.4	20	4	0	
62030		PORTAGE/CHURCH ST FORT FRANCES		364	0.0	0.0	0.0	2.6	15.8	49.0	4.9	126	37	414	
62032		CEMETERY, COLONIZATION RD W FORT FRANCES		331	0.0	0.0	0.0	0.0	2.9	24.2	1.4	262	21	61	
63034		PENINSULA BLDG MARATHON		365	0.0	0.0	0.0	0.0	3.6	21.9	1.5	175	19	53	
63046		CAN-CAR, MONTREAL ST THUNDER BAY		343	0.0	0.0	0.0	0.1	2.4	11.6	1.0	51	6	2	
63084		RECREATION CENTRE RED ROCK		296	0.0	0.0	0.0	0.0	3.2	20.8	1.4	77	28	44	
63090		ST MARTIN SCHOOL TERRACE BAY		342	0.0	0.0	0.0	0.0	3.2	23.8	1.4	95	15	64	
63093		HILL RD/SOUTH CAMP RD TERRACE BAY		344	0.0	0.0	0.0	0.5	10.5	68.6	4.2	166	49	364	
63200		MTC 615 JAMES ST S THUNDER BAY		362	0.0	0.0	0.0	0.0	0.2	3.1	0.2	21	3	0	
71068		WM. MERRIFIELD SCHOOL SAULT STE MARIE		238	0.0	0.0	0.0	0.4	1.0	4.3	0.6	20	3	0	
72084		ROSS RD SMOOTH ROCK FALLS		361	0.0	0.0	0.1	0.6	1.4	13.1	1.1	48	22	27	

TABLE A-10 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989		POLLUTANT - TOTAL REDUCED SULPHUR				UNIT = PARTS/BILLION						
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES			99	ARITH- METIC MEAN		MAXIMUM 1HR	EXCEEDANCES OF PULP MILL CRIT 24HR 1 HR
					50	70	90					
77203	SCIENCE NORTH SUDBURY	363	0.0	0.0	0.0	0.0	0.0	0.8	2.2	0.4	18	3 0

TABLE A-11 10-YEAR TREND FOR TRS

City	Annual Mean (ppb)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CORNWALL	2.8	1.8	2.0	3.4	1.5	0.8	2.6	4.3	2.5	3.4
FORT FRANCES	9.3	12.0	8.8	4.9	2.8	2.0	3.9	5.5	5.9	4.9
HAMILTON	0.9	1.3	1.2	1.4	1.8	1.4	1.4	0.9	0.8	0.8
OAKVILLE	1.5	0.6	1.4	1.2	2.8	2.4	2.4	1.6	1.4	1.1
TIVERTON	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.9	0.4
THUNDER BAY	2.9	2.8	1.0	0.5	0.6	0.8	1.0	0.8	1.0	1.0

TABLE A-12 CARBON MONOXIDE (CO) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989		POLLUTANT - CARBON MONOXIDE		UNIT = PARTS/MILLION									
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC			MAXIMUM		NO. OF TIMES ABOVE CRITERIA 1HR 8HR
			10	30	50	70	90	99	MEAN	1HR	8HR		
12008	467 UNIVERSITY AV W WINDSOR	354	0.0	0.2	0.5	0.8	1.4	2.9	1.0	12	7	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	351	0.0	0.0	0.0	0.0	0.7	1.7	0.3	6	3	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	365	0.0	0.1	0.4	0.7	1.0	2.9	0.9	13	5	0	0
26029	EDNA/FREDERICK STS KITCHENER	359	0.0	0.2	0.5	0.8	1.7	3.7	1.1	10	8	0	0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	364	0.0	0.2	0.4	0.7	0.9	2.3	0.9	8	5	0	0
29000	ELGIN/KELLY ST HAMILTON	362	0.1	0.3	0.6	0.9	1.6	2.8	1.2	9	4	0	0
29102	467 BEACH BLVD HAMILTON	109	0.0	0.1	0.4	0.7	1.0	1.9	0.9	3	2	0	0
31049	MISSION, 381 YONGE ST TORONTO	353	0.2	0.8	1.4	2.3	3.9	9.1	2.4	18	13	0	0
31104	26 BREADALBANE TORONTO	358	0.0	0.0	0.4	0.7	1.1	2.8	0.9	10	6	0	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	356	0.0	0.2	0.5	0.8	1.5	3.8	1.1	14	8	0	0
31190	CN TOWER, 301 FRONT ST W TORONTO	358	0.0	0.0	0.0	0.3	0.8	1.0	0.4	6	2	0	0
32010	LEASIDE HYDRO STATION EAST YORK	363	0.0	0.2	0.5	0.8	1.7	3.7	1.1	10	6	0	0
33003	LAWRENCE/KENNEDY SCARBORO	351	0.0	0.3	0.6	0.9	1.7	3.8	1.2	11	7	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	356	0.0	0.1	0.4	0.7	1.0	2.2	0.8	5	4	0	0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	347	0.0	0.1	0.4	0.8	1.5	3.2	1.0	9	5	0	0



TABLE A-12 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH															
YEAR - 1989	POLLUTANT - CARBON MONOXIDE			UNIT = PARTS/MILLION											
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC MEAN		MAXIMUM		NO. OF TIMES ABOVE CRITERIA	
			10	30	50	70	90	99	1HR	8HR	1HR	8HR	1HR	8HR	
34025	35 EDGAR AVE NORTH YORK WEST	354	0.0	0.1	0.4	0.8	1.5	3.2	1.0	8	5	0	0		
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	343	0.0	0.0	0.0	0.5	1.0	3.9	0.7	7	6	0	0		
35033	EVANS/ARNOLD AV ETOBICOKE	364	0.0	0.3	0.6	0.8	1.6	3.4	1.2	8	5	0	0		
36030	CLEARVIEW HTGS/KEELE ST YORK	362	0.0	0.2	0.5	0.8	1.5	4.7	1.1	12	7	0	0		
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	364	0.0	0.1	0.4	0.7	0.9	2.6	0.9	7	6	0	0		
44015	BRONTE RD/WOBURN CRES OAKVILLE	365	0.0	0.2	0.5	0.7	0.9	2.0	0.9	8	4	0	0		
45025	PS. RITSON RD/OLIVE AV OSHAWA	344	0.0	0.1	0.4	0.7	1.2	4.0	0.9	13	9	0	0		
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	365	0.0	0.2	0.5	0.8	1.7	4.5	1.1	15	8	0	0		
51001	MCD GDS, RIDEAU/WURTEMBURG ST OTTAWA	361	0.0	0.0	0.1	0.5	0.9	2.1	0.6	9	4	0	0		
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	361	0.0	0.0	0.3	0.6	0.9	1.9	0.8	11	4	0	0		
63200	MTC 615 JAMES ST S THUNDER BAY	365	0.0	0.0	0.0	0.1	0.8	2.3	0.4	6	4	0	0		
75010	OPP STN NORTH BAY	359	0.0	0.0	0.0	0.4	0.9	2.6	0.5	8	4	0	0		
77203	SCIENCE NORTH SUDBURY	365	0.0	0.0	0.0	0.2	0.8	1.6	0.4	5	2	0	0		

TABLE A-13 10-YEAR TREND FOR CO

City	Annual Mean (ppm)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CORNWALL	1.1	1.1	1.0	0.2	0.2	0.2	0.2	0.3	0.6	0.8
ETOBICOKE	1.1	1.0	1.1	1.6	1.4	1.3	1.2	1.2	1.2	0.7
HAMILTON	0.9	1.2	1.1	0.9	0.8	1.2	1.1	1.2	1.2	1.2
KITCHENER	1.1	1.1	1.0	1.0	0.9	0.8	0.9	0.8	0.9	1.1
LONDON	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.9
MISSISSAUGA	1.8	2.4	1.5	1.4	1.4	1.9	1.4	1.3	1.0	1.1
NORTH YORK	1.4	1.7	2.3	—	1.3	1.4	1.3	1.2	0.8	0.8
OAKVILLE	1.2	2.3	1.4	1.3	0.9	1.0	1.0	0.8	0.9	0.9
OSHAWA	1.8	2.0	1.9	2.0	1.8	1.0	1.2	0.8	1.1	0.9
OTTAWA	1.2	1.3	0.9	0.2	0.3	0.6	0.6	0.3	0.5	0.7
SARNIA	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3
SCARBOROUGH	1.5	1.4	1.6	1.2	1.4	1.3	1.0	1.1	1.0	1.2
ST CATHARINES	0.6	1.0	0.4	0.4	0.4	0.2	0.2	—	1.0	0.9
SUDBURY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
TORONTO	—	1.3	1.5	1.1	1.0	1.1	1.0	1.1	0.6	0.9
WINDSOR	1.7	1.1	0.5	0.8	0.5	0.5	0.5	0.7	0.9	1.0

TABLE A-14 TOTAL HYDROCARBON (THC) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											
YEAR - 1989		POLLUTANT - TOTAL HYDROCARBONS				UNIT = PARTS/MILLION					
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	335	1.71	1.84	1.99	2.14	2.43	3.31	2.08	6.2	3.5
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	323	1.72	1.90	2.05	2.25	2.68	4.25	2.20	8.2	4.1
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	347	1.66	1.84	2.00	2.23	2.78	5.21	2.22	10.4	5.0
29000	ELGIN/KELLY ST HAMILTON	335	1.79	1.89	1.97	2.06	2.28	2.97	2.06	4.7	4.2
31104	26 BREADALBANE TORONTO	358	1.63	1.89	2.05	2.24	2.58	3.58	2.15	6.7	3.9
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	343	1.38	1.61	1.75	1.90	2.28	4.05	1.87	8.7	4.5
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	308	1.37	1.83	2.10	2.44	3.11	5.36	2.27	11.6	4.4
35033	EVANS/ARNOLD AV ETOBICOKE	326	1.66	1.84	1.97	2.13	2.49	3.80	2.07	6.9	3.9
44015	BRONTE RD/WOBURN CRES OAKVILLE	363	1.53	1.81	1.96	2.15	2.59	5.27	2.12	10.7	6.4

TABLE A-15 10-YEAR TREND FOR THC

City	Annual Mean (ppm)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
ETOBICOKE	2.17	2.19	2.28	2.58	2.23	2.39	2.31	1.86	2.11	2.25
LONDON	2.41	2.36	2.48	2.57	2.89	2.85	2.80	2.99	2.18	2.22
OAKVILLE	2.52	2.36	2.22	2.73	2.27	1.97	2.01	1.98	1.92	2.12
SARNIA	1.86	2.09	2.12	2.02	2.04	1.93	1.62	2.00	1.99	2.20
TORONTO	1.43	1.71	1.66	1.37	1.89	1.76	1.61	1.79	2.01	2.15
WINDSOR	2.22	2.18	2.12	2.09	2.29	2.08	2.15	2.29	2.23	2.08

TABLE A-16 REACTIVE HYDROCARBON (RHC) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											
YEAR - 1989		POLLUTANT - REACTIVE HYDROCARBONS				UNIT = PARTS/MILLION					
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	PERCENTILES			ARITH- METIC MEAN	MAXIMUM	
						70	90	99		1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	329	0.18	0.24	0.29	0.35	0.46	0.91	0.36	2.6	1.0
29000	ELGIN/KELLY ST HAMILTON	333	0.00	0.03	0.07	0.11	0.22	0.57	0.14	1.6	0.5



TABLE A-17 NITROGEN DIOXIDE (NO<sub>2</sub>) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989		POLLUTANT - NITROGEN DIOXIDE				UNIT = PARTS/MILLION					NO. OF TIMES ABOVE CRITERIA		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	300	.006	.014	.020	.028	.041	.067	.028	.16	.07	0	0
14064	CENTENNIAL PK.FRONT ST/CN TRACKS SARNIA	355	.000	.006	.011	.020	.034	.056	.019	.09	.06	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	362	.002	.008	.014	.022	.035	.057	.022	.11	.05	0	0
15013	EUC BLDG PARKHILL	360	.000	.001	.005	.008	.017	.032	.010	.12	.03	0	0
22071	EXPERIMENTAL FARM SIMCOE	350	.000	.001	.004	.008	.016	.031	.010	.06	.03	0	0
222086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	349	.000	.002	.005	.008	.014	.028	.010	.05	.03	0	0
22901	PROVINCIAL PARK LONG POINT	340	.000	.000	.001	.006	.010	.028	.007	.05	.03	0	0
26029	EDNA/FREDERICK STS KITCHENER	362	.004	.012	.018	.026	.038	.058	.025	.21	.06	1	0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	364	.003	.009	.014	.020	.031	.049	.021	.09	.04	0	0
29000	ELGIN/KELLY ST HAMILTON	361	.004	.013	.019	.026	.038	.059	.026	.09	.06	0	0
29102	467 BEACH BLVD HAMILTON	362	.000	.009	.019	.026	.037	.054	.023	.08	.06	0	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	247	.000	.005	.009	.017	.028	.047	.017	.09	.04	0	0
29118	MAIN ST W/HWY403 HAMILTON	365	.002	.008	.015	.024	.037	.058	.023	.10	.05	0	0
31049	MISSION, 381 YONGE ST TORONTO	352	.011	.021	.029	.038	.055	.089	.037	.22	.09	1	0
31104	26 BREADALBANE TORONTO	364	.005	.014	.020	.027	.040	.068	.027	.14	.07	0	0

TABLE A-17 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989		POLLUTANT - NITROGEN DIOXIDE		UNIT = PARTS/MILLION										NO. OF TIMES ABOVE CRITERIA	
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	MAXIMUM 24HR	1HR	24HR	1HR	24HR
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	361	.006	.015	.023	.031	.045	.074	.030	.11	.08	0	0	0	0
31190	CN TOWER, 301 FRONT ST W TORONTO	365	.000	.000	.001	.006	.015	.038	.008	.14	.03	0	0	0	0
32010	LEASIDE HYDRO STATION EAST YORK	364	.005	.014	.022	.031	.046	.077	.030	.17	.09	0	0	0	0
33003	LAWRENCE/KENNEDY SCARBORO	365	.003	.013	.020	.029	.044	.075	.027	.13	.08	0	0	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	364	.009	.016	.022	.029	.039	.058	.028	.14	.05	0	0	0	0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	364	.002	.010	.019	.031	.049	.080	.028	.13	.09	0	0	0	0
34025	35 EDGAR AVE NORTH YORK WEST	353	.010	.016	.023	.031	.049	.086	.032	.16	.08	0	0	0	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	327	.005	.014	.022	.032	.047	.075	.030	.10	.08	0	0	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	356	.011	.019	.026	.034	.049	.077	.033	.15	.07	0	0	0	0
36030	CLEARVIEW HTGS/KEELE ST YORK	357	.004	.013	.020	.028	.040	.071	.027	.11	.07	0	0	0	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	355	.003	.009	.014	.019	.029	.048	.020	.10	.06	0	0	0	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	365	.000	.004	.008	.016	.028	.048	.016	.09	.05	0	0	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	363	.001	.009	.017	.026	.039	.066	.024	.10	.07	0	0	0	0
46110	QUEENSHAW W/HURONTARIO ST MISSISSAUGA	365	.004	.011	.019	.026	.037	.066	.025	.14	.07	0	0	0	0
48002	HWY47/E OF HWY48 STOUFFVILLE	331	.002	.007	.012	.017	.028	.054	.019	.12	.07	0	0	0	0

TABLE A-17 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - NITROGEN DIOXIDE				UNIT = PARTS/MILLION							NO. OF TIMES ABOVE CRITERIA	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH-METIC MEAN		MAXIMUM		1HR	24HR
		10	30	50	70	90	99			1HR	24HR		
49010	HWY 117/PAINT LAKE RD DORSET	243	.000	.000	.000	.000	.004	.016	.002	.04	.02	0	0
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	360	.000	.004	.010	.018	.030	.050	.017	.09	.05	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	.000	.000	.003	.008	.018	.039	.009	.09	.04	0	0
63200	MTC 615 JAMES ST S THUNDER BAY	365	.000	.001	.006	.010	.022	.038	.012	.06	.03	0	0
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	322	.000	.003	.008	.014	.025	.039	.015	.07	.04	0	0
75010	OPP STN NORTH BAY	345	.000	.000	.004	.009	.024	.049	.011	.09	.04	0	0
77203	SCIENCE NORTH SUDBURY	365	.000	.001	.004	.008	.018	.036	.011	.07	.03	0	0

TABLE A-18 10-YEAR TREND FOR NO<sub>2</sub>

City	Annual Mean (ppm)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CORNWALL	.011	.011	.010	.011	.011	.010	.011	.010	.008	.009
ETOBICOKE	.018	.022	.021	.021	.024	.026	.027	.028	.021	.030
HAMILTON	.027	.029	.031	.029	.029	.025	.027	.026	.024	.026
KITCHENER	.026	.026	.028	.025	.027	.029	.032	.026	.027	.025
LONDON	.020	.017	.021	.021	.024	.025	.026	.021	.020	.022
MISSISSAUGA	.027	.029	.026	.026	.026	.026	.026	.025	.021	.025
NORTH YORK	.020	.014	.022	.023	.026	.027	.023	.025	.027	.028
OAKVILLE	.023	.020	.018	.016	.018	.016	.020	.017	.016	.016
OSHAWA	.019	.019	.020	.019	.021	.020	.021	.022	.024	.024
OTTAWA	.017	.016	.015	.014	.014	.012	.012	.015	.016	.017
SARNIA	.022	.018	.022	.020	.023	.019	.021	.012	.015	.019
SCARBOROUGH	.030	.025	.025	.019	.018	.018	.022	.022	.025	.027
SIMCOE	.012	.014	.010	.009	.009	.006	.005	.005	.008	.010
ST CATHARINES	.020	.022	.019	.020	.018	.017	.019	-	.018	.021
SUDBURY	.006	.007	.006	.006	.006	.007	.010	.011	.010	.011
TORONTO	.028	.025	.027	.025	.027	.026	.027	.025	.025	.027
WINDSOR	.031	.030	.029	.026	.027	.026	.025	.027	.030	.027

TABLE A-19 NITRIC OXIDE (NO) STATISTICS (1989)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - NITRIC OXIDE	NO. OF DAYS	PERCENTILES					UNIT = PARTS/MILLION		MAXIMUM 1HR 24HR
					10	30	50	70	90	99	ARITH- METIC MEAN	
12008	467	UNIVERSITY AV W WINDSOR		303	.000	.000	.004	.010	.029	.125	.015	0.49 0.10
14064		CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA		353	.000	.000	.000	.003	.015	.061	.007	0.24 0.05
15001		WRN FAIR GROUNDS, KING/RECTORY LONDON		362	.000	.000	.003	.009	.029	.160	.015	0.55 0.17
15013		PUC BLDG PARKHILL		360	.000	.000	.000	.000	.003	.015	.002	0.09 0.02
22071		EXPERIMENTAL FARM SINCOE		350	.000	.000	.000	.000	.000	.014	.001	0.09 0.02
22086		CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE		349	.000	.000	.000	.000	.003	.017	.002	0.13 0.03
22901		PROVINCIAL PARK LONG POINT		340	.000	.000	.000	.000	.000	.028	.001	0.07 0.05
26029		EDNA/FREDERICK STS KITCHENER		362	.000	.003	.014	.041	.117	.321	.045	0.91 0.27
27067		ARGYLE CRES (PUMP STN) ST CATHARINES		361	.000	.000	.000	.004	.021	.160	.011	0.49 0.11
29000		ELGIN/KELLY ST HAMILTON		362	.000	.000	.002	.009	.033	.121	.014	0.33 0.11
29102		467 BEACH BLVD HAMILTON		361	.000	.000	.007	.021	.049	.136	.021	0.47 0.11
29114		VICKERS RD/EAST 18TH ST HAMILTON		247	.000	.000	.000	.005	.020	.083	.009	0.20 0.07
29118		MAIN ST W/HWY403 HAMILTON		365	.000	.000	.006	.018	.070	.225	.027	0.54 0.20
31049		MISSION, 381 YONGE ST TORONTO		353	.012	.030	.052	.084	.146	.314	.075	0.86 0.31
31104		26 BREADALBANE TORONTO		365	.000	.003	.008	.017	.042	.147	.022	0.59 0.17



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - NITRIC OXIDE

UNIT = PARTS/MILLION

YEAR - 1989	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO		362	.000	.003	.008	.017	.055	.250	.026	0.80 0.29
31190	CN TOWER, 301 FRONT ST W TORONTO		365	.000	.000	.000	.000	.007	.040	.003	0.66 0.11
32010	LEASIDE HYDRO STATION EAST YORK		364	.000	.004	.012	.029	.080	.285	.035	0.73 0.30
33003	LAWRENCE/KENNEDY SCARBORO		364	.000	.004	.013	.028	.070	.253	.033	0.75 0.25
34002	SC CTR, 770 DON HILLS RD NORTH YORK		362	.000	.003	.008	.018	.059	.196	.026	0.48 0.17
34020	HENDON AVE (YONGE/FINCH) NORTH YORK		340	.000	.000	.006	.016	.054	.172	.022	0.61 0.16
34025	35 EDGAR AVE NORTH YORK WEST		353	.000	.005	.017	.039	.086	.198	.037	0.46 0.17
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE		343	.000	.000	.007	.018	.069	.284	.029	0.57 0.21
35033	EVANS/ARNOLD AV ETOBICOKE		357	.000	.009	.023	.045	.101	.315	.047	0.89 0.28
36030	CLEARVIEW HTGS/KEELE ST YORK		359	.000	.001	.007	.018	.078	.344	.033	0.78 0.32
44008	HWY2/NORTH SHORE BLVD E BURLINGTON		355	.000	.000	.006	.015	.042	.154	.020	0.39 0.11
44015	BRONTE RD/WOBURN CRES OAKVILLE		362	.000	.002	.007	.016	.052	.687	.030	0.74 0.72
45025	PS, RITSON RD/OLIVE AV OSHANA		363	.000	.000	.002	.011	.039	.175	.018	0.56 0.25
46110	QUEENSMAY W/HURONTARIO ST MISSISSAUGA		365	.000	.000	.005	.016	.055	.216	.024	0.68 0.22
46002	HWY47/E OF HWY48 STOUFFVILLE		365	.000	.000	.005	.010	.027	.068	.014	0.96 0.11

TABLE A-19 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989		POLLUTANT - NITRIC OXIDE				UNIT = PARTS/MILLION						
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC MEAN	MAXIMUM	
			10	30	50	70	90	99	1HR		24HR	
49010	HWY 117/PAINT LAKE RD DORSET	358	.000	.000	.000	.000	.005	.010	.003		0.02	0.01
51001	MCD GDS, RIDEAU/WURTEMBURG ST OTTAWA	361	.000	.000	.000	.006	.029	.133	.012		0.50	0.14
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	.000	.000	.001	.005	.010	.083	.009		0.56	0.06
63200	MTG 615 JAMES ST S THUNDER BAY	365	.000	.000	.002	.008	.028	.112	.013		0.42	0.07
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	322	.000	.003	.009	.016	.030	.093	.018		0.35	0.07
75010	OPP STN NORTH BAY	345	.000	.000	.000	.006	.024	.130	.012		0.41	0.09
77203	SCIENCE NORTH SUDBURY	365	.000	.000	.000	.003	.009	.063	.006		0.20	0.06

TABLE A-20 10-YEAR TREND FOR NO

City	Annual Mean (ppm)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CORNWALL	.007	.006	.005	.008	.007	.008	.005	.011	.010	.009
ETOBICOKE	.019	.026	.027	.026	.026	.027	.031	.028	.026	.029
HAMILTON	.021	.024	.024	.018	.023	.019	.022	.014	.017	.014
KITCHENER	.037	.058	.038	.045	.046	.047	.051	.051	.047	.045
LONDON	.016	.018	.015	.014	.017	.013	.019	.018	.015	.015
MISSISSAUGA	.026	.027	.025	.027	.028	.030	.032	.030	.026	.024
NORTH YORK	.028	.050	.036	.030	.027	.028	.022	.026	.021	.026
OAKVILLE	.020	.020	.015	.012	.017	.016	.020	.018	.036	.030
OSHAWA	.017	.017	.017	.013	.023	.017	.016	.019	.014	.018
OTTAWA	.013	.015	.013	.009	.012	.011	.010	.012	.011	.012
SARNIA	.010	.014	.009	.010	.008	.007	.009	.006	.006	.007
SCARBOROUGH	.029	.034	.028	.028	.033	.032	.032	.035	.033	.033
SIMCOE	.001	.002	.002	.002	.005	.004	.007	.005	.002	.001
ST CATHARINES	.009	.014	.008	.009	.016	.009	.008	-	.010	.011
SUDBURY	.005	.006	.007	.005	.007	.010	.008	.008	.005	.006
TORONTO	.016	.023	.022	.019	.021	.019	.022	.021	.018	.022
WINDSOR	.019	.017	.011	.016	.028	.015	.021	.014	.014	.015

TABLE A-21 TOTAL NITROGEN OXIDES (NO<sub>x</sub>) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										
YEAR - 1989		POLLUTANT - NITROGEN OXIDES					UNIT = PARTS/MILLION			
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES			99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR
					50	70	90			
12008	467 UNIVERSITY AV W WINDSOR	302	.010	.020	.029	.041	.068	.181	.042	0.56 0.16
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	358	.002	.008	.016	.027	.053	.108	.028	0.30 0.10
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	362	.005	.014	.023	.036	.069	.211	.039	0.60 0.23
15013	PUC BLDG PARKHILL	360	.000	.002	.006	.009	.018	.040	.012	0.13 0.04
22071	EXPERIMENTAL FARM SINCUE	350	.000	.002	.006	.009	.019	.042	.012	0.13 0.05
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICUKE	349	.000	.002	.005	.008	.018	.044	.011	0.19 0.06
22901	PROVINCIAL PARK LONG POINT	340	.000	.000	.000	.005	.014	.040	.007	0.10 0.05
26029	EDNA/FREDERICK STS KITCHENER	362	.008	.021	.037	.072	.158	.358	.070	0.94 0.32
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	361	.004	.012	.019	.028	.057	.199	.033	0.55 0.15
29000	ELGIN/KELLY ST HAMILTON	362	.006	.017	.027	.040	.073	.167	.040	0.41 0.16
29102	467 BEACH BLVD HAMILTON	361	.000	.011	.032	.053	.086	.180	.044	0.53 0.17
29114	VICKERS RD/EAST 18TH ST HAMILTON	239	.001	.007	.014	.025	.053	.127	.027	0.25 0.10
29118	MAIN ST W/HWY403 HAMILTON	364	.005	.015	.026	.048	.108	.268	.050	0.60 0.25
31049	MISSION, 381 YONGE ST TORONTO	353	.033	.060	.089	.127	.199	.394	.112	1.00 0.40
31104	26 BREADALBANE TORONTO	364	.012	.023	.034	.049	.083	.200	.048	0.71 0.24

TABLE A-21 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										
YEAR - 1989		POLLUTANT - NITROGEN OXIDES		UNIT = PARTS/MILLION						
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	361	.011	.023	.034	.052	.101	.315	.055	0.90 0.37
31190	CN TOWER, 301 FRONT ST W TORONTO	365	.000	.000	.004	.008	.021	.077	.012	0.42 0.05
32010	LEASIDE HYDRO STATION EAST YORK	364	.010	.025	.040	.065	.128	.343	.065	0.81 0.38
33003	LAWRENCE/KENNEDY SCARBORO	363	.008	.023	.040	.062	.114	.314	.060	0.84 0.33
34002	SC CTR, 770 DON MILLS RD NORTH YORK	360	.015	.026	.037	.052	.096	.236	.054	0.53 0.21
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	339	.005	.016	.030	.053	.105	.240	.051	0.74 0.25
34025	35 EDGAR AVE NORTH YORK WEST	353	.006	.019	.039	.067	.117	.233	.058	0.46 0.18
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	339	.009	.019	.033	.057	.128	.347	.061	0.65 0.29
35033	EVANS/ARNOLD AV ETOBICOKE	353	.018	.035	.055	.084	.150	.405	.081	1.06 0.39
36030	CLEARVIEW HTGS/KEELE ST YORK	351	.012	.022	.034	.052	.114	.397	.060	0.99 0.43
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	338	.005	.015	.025	.038	.069	.180	.039	0.39 0.13
44015	BRONTE RD/WOBURN CRES OAKVILLE	361	.006	.016	.025	.039	.077	.223	.042	0.80 0.31
45025	PS, RITSON RD/OLIVE AV OSHAWA	362	.002	.012	.024	.042	.081	.233	.042	0.65 0.32
46110	QUEENSMAY W/HURONTARIO ST MISSISSAUGA	364	.006	.018	.028	.042	.091	.267	.048	0.74 0.27
48002	HWY47/E OF HWY48 STOUFFVILLE	365	.000	.012	.019	.029	.051	.110	.029	0.37 0.11



TABLE A-21 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - NITROGEN OXIDES	NO. OF DAYS	PERCENTILES					UNIT = PARTS/MILLION			MAXIMUM 1HR	24HR
					10	30	50	70	90	99	ARITH- METIC MEAN			
49010	HWY 117/PAINT DORSET			360	.000	.000	.000	.003	.008	.019	.005		0.04	0.02
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA			361	.000	.006	.014	.026	.059	.171	.029		0.50	0.13
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL			363	.000	.004	.008	.015	.032	.121	.019		0.59	0.09
63200	MTC 615 JAMES ST S THUNDER BAY			365	.001	.006	.012	.022	.052	.145	.026		0.46	0.09
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE			322	.003	.013	.021	.033	.056	.126	.032		0.36	0.09
75010	OPP STN NORTH BAY			345	.000	.003	.008	.016	.048	.172	.023		0.46	0.12
77203	SCIENCE NORTH SUDBURY			365	.000	.003	.007	.012	.029	.102	.016		0.25	0.08

TABLE A-22 OZONE (O<sub>3</sub>) STATISTICS (1989)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989		POLLUTANT - OZONE		UNIT = PARTS/BILLION									
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC			MAXIMUM 1HR 24HR	NO. OF TIMES ABOVE CRITERIA 1HR	
			10	30	50	70	90	99	MEAN				
10001	COLLEGE OF AGRIC TECH HURON PARK	365	8.9	19.1	25.9	32.8	47.5	74.5	28.0		103 68	54	
12008	467 UNIVERSITY AV W WINDSOR	317	2.5	9.3	16.5	25.2	42.3	75.8	20.6		136 62	57	
12016	COLLEGE/SOUTH ST WINDSOR	348	0.5	6.6	14.4	23.8	42.3	74.6	18.8		122 57	50	
13021	MOE WATER PUMP STN, MIDDLE RD MERLIN	354	7.4	16.7	23.9	32.4	49.6	78.4	27.2		108 81	77	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	341	4.3	15.0	23.2	31.1	45.3	79.1	25.3		157 83	76	
14118	CONCESSION RD 26 MANDAUMIN	353	8.8	18.2	26.1	33.7	49.0	81.9	28.4		125 68	101	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	364	2.4	11.5	19.6	28.0	46.4	76.3	22.9		109 73	62	
15013	PUC BLDG PARKHILL	365	7.7	17.6	24.9	31.8	47.3	76.7	26.9		115 69	61	
18007	CONCESSION RD 2 LOT A TIVERTON	339	16.1	26.0	31.7	37.0	48.8	81.1	33.1		128 79	86	
22071	EXPERIMENTAL FARM SIMCOE	356	11.3	19.7	26.5	33.2	47.8	73.8	28.6		93 71	42	
22901	PROVINCIAL PARK LONG POINT	341	14.9	24.7	31.3	41.0	60.8	98.5	35.7		135 107	257	
26029	EDNA/FREDERICK STS KITCHENER	361	1.9	10.1	17.4	24.7	38.8	68.0	19.9		98 66	16	
26045	WEBER/UNIVERSITY ST WATERLOO	363	1.5	11.1	18.6	26.5	43.4	68.5	21.4		93 60	12	
27056	ALLENDALE AV NIAGARA FALLS	357	7.3	16.6	23.6	31.2	46.9	78.7	26.5		109 67	77	
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	360	1.4	11.3	18.5	26.0	39.7	67.1	20.8		105 54	10	

TABLE A-22 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - OZONE	NO. OF DAYS	PERCENTILES					UNIT = PARTS/BILLION				MAXIMUM 1HR 24HR	NO. OF TIMES ABOVE CRITERIA 1HR
					10	30	50	70	90	99	MEAN	ARITH- METIC	1HR		
28028	EXHIBITION ST/CLARK ST GUELPH			360	1.2	11.8	20.1	28.1	41.9	74.3	22.1		103	65	37
29000	ELGIN/KELLY ST HAMILTON			364	0.0	5.4	12.2	20.3	38.3	76.3	16.7		127	72	64
29105	NASH RD/KENTLEY DR HAMILTON			365	0.3	8.5	15.9	24.1	40.4	71.0	19.2		106	64	37
29114	VICKERS RD/EAST 18TH ST HAMILTON			365	0.3	8.5	16.2	24.6	40.8	71.0	19.5		99	73	31
29118	MAIN ST W/HWY403 HAMILTON			365	0.0	3.9	12.6	20.6	36.1	67.8	15.9		102	65	16
31104	26 BREADALBANE TORONTO			352	1.2	6.7	13.4	20.9	35.4	67.5	16.9		139	53	26
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO			333	4.1	8.9	16.3	25.1	40.3	79.1	20.5		161	57	77
31190	CH TOWER, 301 FRONT ST W TORONTO			365	7.6	21.4	30.1	41.9	62.3	95.6	34.0		146	92	265
32010	LEASIDE HYDRO STATION EAST YORK			356	1.6	6.1	13.2	21.1	32.0	55.5	16.0		91	45	9
33003	LAWRENCE/KENNEDY SCARBORO			359	0.5	6.8	14.3	22.6	37.5	74.1	17.9		156	54	55
34002	SC CTR, 770 DON MILLS RD NORTH YORK			343	0.7	4.4	9.2	15.8	25.9	49.1	12.4		96	34	5
34020	HENDON AVE (YONGE/FINCH) NORTH YORK			361	0.0	6.4	14.7	24.5	38.1	64.8	18.1		124	65	41
34025	35 EDGAR AVE NORTH YORK WEST			347	0.0	3.2	10.2	20.2	32.8	52.5	14.4		88	48	5
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE			325	0.0	3.9	12.4	23.1	38.8	68.9	16.9		121	67	41
35033	EVANS/ARNOLD AV ETOBICOKE			358	0.5	3.2	9.0	15.9	30.8	62.6	13.3		94	47	11

TABLE A-22 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	STATION NUMBER	LOCATION	POLLUTANT - OZONE	NO. OF DAYS	PERCENTILES					UNIT = PARTS/BILLION			NO. OF TIMES ABOVE CRITERIA 1HR
					10	30	50	70	90	99	MEAN	MAXIMUM 1HR 24HR	
36030	CLEARVIEW HTGS/KEELE ST YORK			354	0.5	4.8	12.4	21.2	35.8	68.6	16.4	125 48	43
44008	HWY2/NORTH SHORE BLVD E BURLINGTON			350	1.0	7.5	15.3	23.5	40.4	83.1	19.3	158 63	106
44015	BRONTE RD/NOBURN CRES OAKVILLE			365	0.8	8.7	18.8	28.6	45.6	83.0	22.1	132 68	112
45025	PS, RITSON RD/OLIVE AV OSHAWA			363	2.7	11.6	19.6	27.3	40.0	77.4	21.9	118 63	80
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA			362	1.6	6.4	14.1	21.9	40.0	85.4	18.6	139 73	107
47035	509 VICTORIA ST E ALLISTON			364	4.8	15.2	22.3	28.5	39.3	64.3	23.3	97 47	13
48002	HWY47/E OF HWY48 STOUFFVILLE			365	7.1	19.0	25.9	33.5	47.6	83.3	28.1	125 81	106
49010	HWY 117/PAINT LAKE RD DORSET			334	15.2	25.2	31.4	36.8	49.3	77.2	32.7	138 64	58
51001	MCD GDS, RIDEAU/HURTEMBURG ST OTTAWA			361	2.4	11.1	18.6	26.5	39.9	63.5	20.9	93 59	8
52020	CHURCHILL PK, NAPIER ST KINGSTON			250	5.4	15.0	22.0	29.0	41.5	71.6	23.9	112 83	30
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL			361	3.4	13.3	19.6	25.2	35.6	54.7	20.4	83 55	1
59006	CITY HALL, 500 GEORGE ST PETERBORO			330	5.1	15.3	22.4	28.7	38.9	71.8	23.5	104 68	32
63100	HANKEYE LAKE			199	8.3	19.4	25.1	31.2	45.4	69.2	26.8	90 69	16
63200	MTC 615 JAMES ST S THUNDER BAY			308	0.5	8.2	16.2	24.5	34.9	51.4	17.9	88 56	5
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE			320	3.2	12.6	20.5	28.6	40.4	57.1	22.1	102 54	15

TABLE A-22 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - OZONE		UNIT = PARTS/BILLION										NO. OF TIMES ABOVE CRITERIA	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC			MAXIMUM		1HR	
			10	30	50	70	90	99	MEAN	1HR	24HR			
75010	OPP STN NORTH BAY	359	8.2	19.7	27.2	34.4	46.5	69.4	28.4	96	77	36		
77203	SCIENCE NORTH SUDBURY	352	11.8	21.3	27.6	33.7	45.4	67.7	28.9	95	76	15		



TABLE A-23 10-YEAR TREND FOR O<sub>3</sub>

City	Annual Mean (ppb)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CORNWALL	24.8	22.7	21.5	22.7	27.6	25.8	22.8	20.8	24.0	20.4
ETOBICOKE	13.4	14.5	15.6	15.7	16.5	18.1	16.7	16.0	19.3	16.9
HAMILTON	17.4	16.3	16.9	18.7	18.0	19.0	16.4	16.2	17.9	16.7
HURON PARK	23.6	23.9	23.4	24.2	26.5	26.5	26.1	25.9	29.7	28.0
KITCHENER	20.7	18.8	17.8	18.9	18.3	19.9	17.0	17.1	21.6	19.9
LONDON	18.5	19.8	21.3	21.0	19.4	21.3	18.4	19.4	23.7	22.9
LONG POINT	32.7	31.3	34.1	29.9	31.2	34.4	31.4	31.7	38.4	35.7
MANDAUMIN	22.3	23.4	22.5	19.1	25.9	27.9	23.1	25.9	30.0	28.4
MERLIN	23.6	23.8	25.3	22.6	21.0	22.0	19.8	27.3	31.5	27.2
MISSISSAUGA	15.7	14.4	14.2	16.6	15.4	16.0	15.7	14.5	17.7	18.6
NORTH YORK	16.3	15.6	14.5	18.3	15.5	11.8	7.4	8.9	9.0	12.8
OAKVILLE	23.0	17.3	16.0	18.1	16.7	19.6	18.5	19.8	20.9	22.1
OSHAWA	17.1	17.8	18.8	21.1	17.1	18.2	17.2	17.9	20.2	21.9
OTTAWA	15.4	15.2	17.1	17.6	17.8	19.2	17.3	16.1	20.7	20.9
SARNIA	21.6	21.3	22.7	23.0	23.3	22.9	20.9	21.8	22.6	25.3
SCARBOROUGH	13.8	13.3	14.8	16.7	14.9	13.9	16.6	16.8	17.7	17.9
SIMCOE	26.3	28.9	32.3	30.0	28.7	30.6	27.6	28.4	31.2	28.6
ST CATHARINES	20.8	20.0	21.2	23.2	20.3	17.9	21.9	—	23.6	20.8
STOUFFVILLE	22.8	19.4	22.7	20.5	21.0	23.3	20.0	22.9	26.6	28.1
SUDBURY	13.9	15.6	16.0	14.2	15.8	13.4	17.1	19.4	29.5	28.9
TIVERTON	24.2	29.0	26.8	27.3	27.3	34.6	27.5	33.0	34.6	33.1
TORONTO	16.4	15.7	15.3	14.3	16.7	17.1	16.2	15.4	17.5	16.9
WINDSOR	19.9	18.8	18.1	18.7	18.9	19.7	17.4	17.6	23.5	20.6

TABLE A-24 TOTAL SUSPENDED PARTICULATE (TSP) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH															
YEAR - 1989		POLLUTANT - SUSPENDED PARTICULATE			UNIT - MICROGRAMS/CU. METRE										
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR			
			10	30	50	70	90	99	MAX						
10015	PUC BLDG, 64 WEST ST	46	15	23	31	47	70	112	113	39	33	0	0		
12002	GODERICH CITY HALL, 444 WINDSOR AV	53	33	43	52	61	83	96	97	54	51	0	0		
12005	WINDSOR 7730 RIVERSIDE DR E	57	28	34	42	52	77	97	99	47	43	0	0		
12006	WINDSOR BEACH LANE/HWY 18	56	33	42	50	60	83	103	106	54	51	0	0		
12007	WINDSOR LA SALLE WRIGHT/WATER ST	54	37	49	54	65	86	138	178	60	56	1	0		
12008	WINDSOR 467 UNIVERSITY AV W	320	39	51	61	74	96	149	174	65	61	8	1		
12009	WINDSOR 9725 RIVERSIDE DR E	54	33	43	49	58	85	91	94	52	49	0	0		
12010	WINDSOR LITTLE RIVER SEWAGE STN, HANNING RD	58	22	31	37	47	67	83	88	40	37	0	0		
12011	WINDSOR DROUILLARD RD/RICHMOND ST	57	44	58	65	75	98	123	132	69	66	1	1		
12013	WINDSOR FILTRAT PLY,3665 WYANDOTTE ST E	53	44	57	72	89	172	200	223	86	76	10	1		
12015	WINDSOR SEWAGE STN, HWY 18/PROSPECT	60	47	61	82	97	115	173	177	82	76	6	1		
12016	WINDSOR COLLEGE/SOUTH ST	57	42	50	58	73	92	144	156	64	61	2	1		
12036	WINDSOR 1802 GEORGE AV	58	30	40	48	58	83	98	98	52	48	0	0		
12037	WINDSOR 3225 CALIFORNIA ST	56	31	42	49	56	68	93	93	51	48	0	0		
12038	WINDSOR 2885 HOWARD AV	58	46	57	70	83	116	134	139	74	70	3	1		
12039	WINDSOR DOUGLAS ST/E.C. ROW W	60	38	45	58	69	92	100	101	60	56	0	0		
12047	WINDSOR DORWIN PLAZA, DOUGALL AV	51	20	40	56	63	80	113	140	53	47	1	0		
12049	WINDSOR 643 ALEXANDRINE	59	30	41	47	62	80	96	98	52	48	0	0		
12051	WINDSOR 604 CAPITOL/REHINGTON	55	30	48	61	71	102	123	126	62	57	1	0		
12053	WINDSOR 415 FRONT ST	55	32	37	45	64	79	92	102	51	47	0	0		
13003	WINDSOR AMHERSTBURG POST OFFICE, 10 CENTRE ST	59	35	43	49	61	88	109	113	56	52	0	0		
13007	WINDSOR CHATHAM 26 FERGUSON ST	34	32	45	58	75	109	156	158	65	58	3	INS		
13008	WINDSOR THAMESVILLE RPS BEAVER LUMBER	34	27	38	42	53	97	157	169	56	48	2	INS		
14001	WINDSOR THAMESVILLE GENERAL HOSPITAL, 220 MITTON ST	57	24	30	39	55	75	104	109	45	40	0	0		
14016	WINDSOR SARNIA HWY40 (OPP LAMPTON GS)	340	19	29	38	48	67	94	108	40	36	0	0		
14030	WINDSOR COURTRIGHT RRL (W OF HOUSE) CORUNNA	51	19	27	33	44	87	107	116	40	35	0	0		

TABLE A-24 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - SUSPENDED PARTICULATE	LOCATION	NO. OF SAMPLES	UNIT - MICROGRAMS/CU. METRE					ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR
				30	50	70	90	99			
14031	RRI (W OF BARN)	MOORETOWN	52	21	28	40	54	131	35	29	1
14054	SARNIA YACHT CLUB, POINT EDWARD	SARNIA	55	18	28	42	50	71	108	112	0
14059	ST CLAIR BLVD/HWY 40	CORUNNA	56	19	33	42	49	75	117	124	1
14064	CENTENNIAL PK, FRONT ST/CN TRACKS	SARNIA	56	20	29	35	48	69	88	88	0
14151	DAVID/FRONT ST	SARNIA	57	27	39	52	76	106	163	193	4
14152	CHRISTINA/EXMOUTH ST	SARNIA	66	35	45	53	61	83	120	140	1
14153	704 MARA ST POINT EDWARD	SARNIA	64	25	35	42	53	83	104	111	0
15001	WRN FAIR GROUNDS, KING/RECTORY	LONDON	59	33	45	63	76	98	145	153	2
15006	16 ALEXANDRIA ST	ST THOMAS	58	26	36	47	57	80	113	132	1
15008	EDGEHARE RD (NNW VARTA PLT)	ST THOMAS	52	23	29	37	43	60	83	92	0
15009	LONGHOODS CONSERVATION	LONGHOODS	58	16	27	36	47	67	108	124	1
15014	POND HILLS RD/DEVON CRES	LONDON	60	30	45	55	74	94	119	131	1
15015	951 COMMISSIONERS RD E	LONDON	61	22	33	44	52	70	105	116	0
15016	801 COMMISSIONERS RD E	LONDON	64	23	33	45	53	70	92	115	0
15017	8 HOUNTSFIELD DR	LONDON	61	31	42	52	66	89	127	155	1
17006	ST ANTHONY'S SS, HWY 2	BEACHVILLE	40	37	47	53	76	118	199	251	4
17014	CYANAHIDE RD (GORDON PROP)	BEACHVILLE	52	24	43	51	63	100	150	165	3
17020	HWY 2 RR 2 (J SPRIEL PROP)	INGERSOLL	58	46	57	70	90	124	198	200	6
17021	OXFORD CTY RD 6 (HESSTON FARM)	ENBRO	102	39	57	77	102	160	228	230	24
22087	JARVIS COMMUNITY CENTRE, JAMES ST	JARVIS	51	29	45	53	62	97	197	285	2
22090	ST GEORGE/ALHA	PORT DOVER	47	26	33	37	45	67	95	96	0
22092	RAITHIAH RD/SANDUSK RD	JARVIS	41	27	33	41	45	59	90	111	0
22904	WALPOLE S PS, SANDUSK RD	WALPOLE	45	25	31	36	41	52	92	115	0
22907	RAITHIAH RD (NEAR STELCO GATE)	RAITHIAH	51	36	44	51	60	88	117	143	1
22961	NANTICOKE RD/WALPOLE CON 2	NANTICOKE	42	28	35	42	53	76	97	110	0
22964	N 2 KM NANTICOKE GS	NANTICOKE	50	21	38	43	56	79	101	101	0

TABLE A-24 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989		POLLUTANT - SUSPENDED PARTICULATE		UNIT - MICROGRAMS/CU. METRE									
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR	
			30	50	70	90	99	MAX					
26029	EDNA/FREDERICK STS	56	33	47	62	73	117	136	142	67	60	4	0
26048	KITCHENER	38	29	37	55	66	114	134	141	60	53	2	INS
27008	HWY69/VIOLET HILL	54	34	46	57	68	94	124	131	60	55	1	0
27045	ST CATHARINES	51	34	41	49	59	71	109	134	52	48	1	0
27047	337 ALBERTA/DEVON ST	57	32	45	51	59	78	123	135	55	51	1	0
27050	DAVIS/FRAZER	56	47	61	76	93	124	159	193	82	76	7	1
27051	PORT COLBORNE	31	38	56	67	83	105	162	175	71	65	2	INS
27052	4057 VICTORIA AV	52	56	68	84	111	144	233	267	96	87	12	1
27055	NIAGARA FALLS	53	52	77	97	126	199	276	289	112	98	17	1
27056	ALLENDALE AV	52	33	43	50	57	75	115	125	53	50	1	0
28027	NIAGARA FALLS	58	28	42	50	72	111	154	186	63	54	2	0
28028	HANLON EXPWY/SPEED RIVER	58	21	35	44	62	80	113	126	49	43	1	0
28040	EXHIBITION ST/CLARK ST	35	5	11	20	39	64	114	133	30	18	1	INS
28041	545 ST GEORGE/MAPLE	36	15	24	40	51	72	156	184	46	37	1	INS
29000	FERGUS	322	43	57	72	93	142	248	300	83	75	62	1
29009	ELGIN/KELLY ST	56	38	47	63	80	101	148	154	68	62	3	1
29011	HAMILTON	61	61	83	103	143	189	248	251	118	107	26	1
29012	BURLINGTON/LEEDS	60	45	55	66	76	100	158	159	71	65	5	1
29017	BURLINGTON/WELLINGTON	55	50	68	94	135	197	234	243	109	95	20	1
29025	CHATHAM/FRID	59	46	63	81	104	147	179	200	88	80	13	1
29067	BARTON/WENTWORTH	60	39	48	55	64	85	147	168	60	55	2	0
29087	450 HUGHSON ST N	61	36	42	53	65	83	141	152	59	54	2	0
29089	405 CUMBERLAND AV	58	40	58	70	81	114	162	168	74	67	5	1
29098	HAMILTON	60	27	43	54	64	106	128	129	60	53	4	0
29102	BARTON/NASH RD	330	43	62	82	107	144	226	364	89	79	64	1
29111	HAMILTON	58	51	66	97	118	184	391	549	113	94	16	1
	BAY/HAIN ST												
	467 BEACH BLVD												
	OFFIELD RD/HWY 5												
	GREENSVILLE												

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - SUSPENDED PARTICULATE	UNIT - MICROGRAMS/CU.METRE										NO OF TIMES ABOVE CRITERIA 24-HR 1-YR	
STATION NUMBER	LOCATION	NO OF SAMPLES	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN			
29112	HARVEST RD/HESITE GREENSVILLE	54	28	39	52	59	86	200	220	58	51	2	0
29113	GERTRUDE/DEPEN HAMILTON	60	53	77	109	132	183	211	219	110	100	22	1
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	31	45	57	69	101	137	141	62	54	2	0
29118	MAIN ST W/HWY403 HAMILTON	58	31	42	51	61	91	130	144	56	51	1	0
29119	MORLEY ST/PARKDALE AV HAMILTON	60	47	74	90	102	131	171	200	91	85	10	1
29122	DUNDURN/YORK HAMILTON	61	29	37	45	55	77	172	187	52	46	3	0
29124	BUCHANAN PARK PS HAMILTON	44	31	38	49	70	118	151	154	63	54	4	0
29130	EMER RD/WHITNEY AV HAMILTON	59	22	28	33	40	56	85	90	36	33	0	0
29135	ALBRIGHT RD/MT ALBION RD HAMILTON	59	25	33	43	49	68	102	120	45	41	0	0
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	319	28	42	54	79	120	179	320	66	56	29	0
31058	MOSLEY/LESLIE STS TORONTO	290	36	53	74	110	160	243	310	86	73	55	1
31065	633 EASTERN AV TORONTO	338	35	54	73	100	150	236	290	84	73	55	1
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	321	35	55	73	93	141	226	870	84	71	55	1
31085	TECUMSETH/NIAGARA ST TORONTO	324	33	53	68	86	130	228	380	78	68	41	1
31104	26 BREADALBAHE TORONTO	356	32	49	59	76	109	157	335	67	60	26	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	57	34	47	50	64	79	127	133	55	51	2	0
31181	60 BATHURST ST TORONTO	233	42	57	77	100	140	286	360	87	77	38	1
31183	FORT YORK TORONTO	330	37	52	65	86	130	240	300	76	67	42	1
32010	LEASIDE HYDRO STATION EAST YORK	41	42	56	77	87	118	187	210	78	72	4	1
33003	LAWRENCE/KENNEDY SCARBORO	59	33	55	68	92	118	215	270	77	67	6	1
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	48	21	39	50	59	76	146	157	54	47	3	0
34025	35 EDGAR AVE NORTH YORK WEST	51	34	50	61	81	117	153	153	70	63	5	1
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	37	18	43	54	70	99	144	154	59	50	2	INS
35033	EVANG/ARIOLD AV ETOBICOKE	60	50	62	71	88	109	192	203	78	73	3	1
35051	RESOURCES RD (HOL LAB) ETOBICOKE	329	29	46	58	74	101	163	422	64	57	15	0
36030	CLEARVIEW HTGS/KEELE ST YORK	30	19	49	64	74	98	133	148	62	52	1	INS



TABLE A-24 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
STATION NUMBER	YEAR - 1989	POLLUTANT - SUSPENDED PARTICULATE	LOCATION	NO OF SAMPLES	UNIT - MICROGRAMS/CU.METRE							NO OF TIMES ABOVE CRITERIA 24-HR 1-YR
					10	30	50	70	90	MAX	ARITH MEAN	
44005		2487 LAKESHORE E/BIRKBECK RDS		256	24	36	49	64	106	340	58	11
44008		OAKVILLE									50	0
44008		HWY2/NORTH SHORE BLVD E		56	28	43	52	61	108	233	60	4
44015		BURLINGTON									51	0
44015		BRONTE RD/WOBURN CRES		41	30	42	53	72	103	226	66	2
45001		OAKVILLE									56	0
45001		FIRE HALL, BAYLY/BROCK		320	27	43	54	77	111	166	63	23
45007		PICKERING									53	0
45007		AJAX-PICKERING HOSP		313	24	35	44	58	82	146	50	4
45025		AJAX									44	0
45025		PS, RITSON RD/OLIVE AV		60	30	46	58	69	91	140	61	2
46033		OSHANA									56	0
46033		FIRE HALL, BRAHALEA RD		49	36	57	69	105	154	325	90	10
46041		BRAMALEA									75	1
46041		2414 DIXIE RD		312	35	55	69	90	124	191	68	37
46045		MISSISSAUGA									77	1
46045		2365 DIXIE RD		325	32	52	68	84	112	178	72	64
46046		MISSISSAUGA									64	20
46046		2360 DIXIE RD		307	32	46	58	76	103	161	65	19
46110		MISSISSAUGA									58	0
46110		QUEENSWAY W/HURONTARIO ST		56	38	50	57	67	89	121	61	1
47019		MISSISSAUGA									58	0
47019		POST OFFICE, 17-25 PETER ST S		17	22	42	51	65	93	108	55	0
47042		ORILLIA									47	INS
47042		ARMOURY BLDG, PARK/PARKSIDE ST		28	22	35	49	58	88	113	51	44
48002		BARRIE									40	0
48002		HWY47/E OF HWY48		56	18	34	40	54	75	116	46	1
48140		STOUFFVILLE									36	4
48140		CON 5 (BROWN PROP)		65	16	24	36	47	80	276	49	4
48141		RAVENSHOE									31	0
48141		RR2 (INGHAM PROP)		56	10	19	24	33	46	135	290	1
48142		KESWICK									24	0
48142		RR2 (CALDERARO PROP)		69	12	21	30	49	84	373	51	33
49011		KESWICK									28	19
49011		HWY 117/BELLWOOD ACRES		106	6	11	19	31	58	138	206	4
58027		DORSET									19	4
58027		51 SHUTER ST		68	23	28	34	47	66	74	39	36
58041		PORT HOPE									36	0
58041		FILT PLT, MARSH ST		71	25	34	47	57	97	139	53	47
58042		PORT HOPE									3	0
58042		CAN TIRE, QUEEN ST		69	33	37	50	67	88	116	56	51
61015		PORT HOPE									1	0
61015		18 YOUNG STREET		56	18	28	39	52	75	137	221	46
61016		RED LAKE									38	1
61016		98 DICKENSON ROAD		14	10	12	16	31	50	88	95	28
61017		BALMERTON									21	0
61017		DICKENSON MINES LTD		14	10	13	19	34	105	223	47	26
62004		BALMERTON									1	INS
62004		ATIKOKAN S.S.		51	8	26	30	39	70	118	36	29
62032		ATIKOKAN									32	0
62032		CENETERY, COLONIZATION RD W		57	17	22	28	37	54	74	75	32
		FORT FRANCES									29	0

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TABLE A-25 10-YEAR TREND FOR TSP

City	Annual Geometric Mean (ug/m <sup>3</sup> )									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
ATIKOKAN	39	26	20	21	23	23	22	26	27	29
BRAMALEA	60	53	61	65	66	62	59	63	60	75
BURLINGTON	49	45	46	49	57	53	45	50	42	56
CHATHAM	75	65	48	45	41	43	45	51	50	52
COURTRIGHT	48	32	36	33	37	34	36	34	34	36
ESPANOIA	65	59	45	46	45	42	37	40	37	50
ETOBICOKE	52	54	55	44	46	51	63	51	43	48
FORT FRANCES	40	39	32	33	32	26	29	29	26	29
HAMILTON	88	72	81	75	81	71	76	77	81	80
JARVIS	54	43	46	46	49	49	44	43	43	52
KITCHENER	64	64	54	51	58	46	56	61	62	60
LONDON	83	58	51	52	55	42	50	65	54	57
MISSISSAUGA	70	73	62	60	68	55	53	56	54	58
NORTH BAY	46	37	34	33	37	25	29	28	28	28
NORTH YORK *	48	44	43	38	39	40	40	40	49	65
OAKVILLE	62	50	45	40	47	43	43	45	44	56
ORILLIA	50	44	59	42	43	42	40	41	64	47
OSHAWA	58	54	47	42	44	41	43	51	48	58
PICKERING	49	50	48	41	47	49	47	44	52	53
PORT COLBORNE	67	57	42	51	57	49	54	45	46	51
PORT HOPE	33	34	36	30	46	45	31	31	30	36
S.S.MARIE	62	45	40	35	37	36	34	35	35	33
SARNIA	76	62	58	59	45	46	45	42	42	37
SCARBOROUGH	70	59	57	51	60	53	55	53	51	67
ST CATHARINES	62	57	56	68	58	50	60	47	46	55
ST THOMAS	80	61	55	57	59	56	51	65	54	45
SUDBURY	42	40	34	28	28	26	29	31	25	30
THUNDER BAY	51	52	39	35	44	36	40	35	37	36
TORONTO	67	58	55	54	54	50	50	52	58	60
WELLAND	83	58	51	49	58	48	42	48	51	48
WINDSOR	77	69	62	53	50	50	61	58	60	51

\* change of location from Science Centre (34002) to Yonge/Finch (34020)

## IR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - LEAD	STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
UNIT - .01 MICROGRAMS/CU.METRE														
12002	CITY HALL, 444 WINDSOR AV	WINDSOR		53	1	2	3	3	5	8	9	3	2	0
12005	7730 RIVERSIDE DR E	WINDSOR		57	1	2	3	4	5	8	9	3	2	0
12007	WRIGHT/WATER ST	WINDSOR		54	1	1	1	3	6	10	11	2	1	0
12008	467 UNIVERSITY AV W	WINDSOR		318	2	3	4	5	7	11	15	4	3	0
12009	9725 RIVERSIDE DR E	WINDSOR		54	1	1	2	3	4	8	8	2	1	0
12010	LITTLE RIVER	SEWAGE STN, HANNING RD		58	1	1	2	3	4	5	5	2	1	0
12011	DROUILARD RD/RICHMOND ST	WINDSOR		57	2	4	5	6	7	13	18	5	4	0
12013	FILLIRAT PLT,3665 WYANDOTTE ST E	WINDSOR		53	2	3	4	6	10	16	17	5	4	0
12015	SEWAGE STN, HWY 18/PROSPECT	WINDSOR		60	2	3	4	5	7	9	9	4	3	0
12038	2885 HOWARD AV	WINDSOR		57	3	5	7	9	12	17	18	7	6	0
12039	DOUGLAS ST/E.C. ROW W	WINDSOR		60	3	4	5	8	10	17	20	6	5	0
12047	DORMIN PLAZA, DOUGALL AV	WINDSOR		51	1	2	3	3	5	8	11	3	2	0
12049	643 ALEXANDRINE	WINDSOR		59	1	3	4	5	7	8	9	4	3	0
12051	604 CAPITOL/REMINGTON	WINDSOR		55	2	3	5	6	9	14	17	5	4	0
13003	POST OFFICE, 10 CENTRE ST	CHATHAM		59	1	2	3	3	4	6	8	3	2	0
14016	HWY40 (OPP LAMBTON GS)	COURTRIGHT		340	1	1	1	2	3	6	11	2	1	0
14030	RRI (W OF HOUSE)	CORUNHA		51	1	1	2	3	5	10	13	2	2	0
14031	RRI (W OF BARN)	HODRETOWN		52	1	1	1	2	3	3	3	1	1	0
14064	CENTENNIAL PK.FRONT ST/CN TRACKS	SARNIA		56	1	1	2	3	4	9	9	2	1	0
14152	CHRISTINA/EXMOUTH ST	SARNIA		66	1	1	2	4	6	10	12	3	1	0
14153	704 MARA ST POINT EDWARD	SARNIA		65	1	1	2	3	7	10	11	3	1	0
15001	MHN FAIR GROUNDS, KING/RECTORY	LONDON		59	2	3	4	5	7	11	12	4	4	0
15008	EDGEWARE RD (HNV VARTA PLT)	ST THOMAS		52	1	1	3	6	15	119	150	9	2	0
15009	LONGHOODS CONSERVATION	LONGHOODS		58	1	1	1	2	2	4	5	1	1	0
15014	POND HILLS RD/DEVERON CRES	LONDON		60	2	3	4	5	8	11	11	4	3	0
15015	951 COMMISSIONERS RD E	LONDON		59	1	1	2	3	5	5	6	2	1	0

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - LEAD	UNIT - .01 MICROGRAMS/CU.METRE															
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR					
			30	50	70	90											
15016	801 COMMISSIONERS RD E LONDON	59	1	1	2	3	4	5	5	2	1	0					
15017	8 MOUNTSFIELD DR LONDON	57	1	2	3	4	5	11	13	3	2	0					
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	51	1	2	2	3	4	9	11	2	2	0					
26029	EDNA/FREDERICK STS KITCHENER	56	1	3	5	9	14	18	19	7	5	0					
27008	71 KING ST ST CATHARINES	54	1	3	3	4	5	9	10	3	3	0					
28028	EXHIBITION ST/CLARK ST GUELPH	58	1	1	2	4	7	10	10	3	1	0					
29011	BURLINGTON/LEEDS HAMILTON	61	4	8	12	16	23	39	49	13	10	0					
29012	BURLINGTON/WELLINGTON HAMILTON	60	2	3	5	7	11	23	27	7	5	0					
29017	CHATHAM/FRID HAMILTON	55	2	3	5	8	14	26	39	7	5	0					
29025	BARTON/WENTWORTH HAMILTON	59	3	5	8	11	27	78	156	14	9	0					
29067	450 HUGHSON ST N HAMILTON	60	2	4	5	7	12	25	33	6	5	0					
29098	BAY/MAIN ST HAMILTON	60	1	3	4	9	16	29	42	7	4	0					
29102	467 BEACH BLVD HAMILTON	59	2	4	7	12	19	24	24	9	6	0					
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	1	3	4	6	13	24	27	6	4	0					
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	319	5	5	5	10	20	50	70	11	8	0					
31058	MOSLEY/LESLIE STS TORONTO	289	5	20	40	80	174	401	587	69	36	2					
31065	633 EASTERN AV TORONTO	338	5	11	28	50	170	442	752	61	27	1					
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	322	1	2	6	9	15	36	47	7	3	0					
31085	TECUMSETH/NIAGARA ST TORONTO	325	1	5	5	10	20	115	240	12	5	0					
31104	26 BREADALBANE TORONTO	356	1	3	4	6	10	19	42	5	4	0					
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	57	1	2	4	5	8	15	16	4	3	0					
31181	60 BATHURST ST TORONTO	234	5	5	5	5	10	26	30	7	6	0					
31183	FORT YORK TORONTO	331	1	5	5	5	10	20	20	5	3	0					
32010	LEASIDE HYDRO STATION EAST YORK	41	1	2	3	5	9	12	13	4	2	0					
33003	LAWRENCE/KENNEDY SCARBORO	59	1	1	3	5	8	13	13	4	2	0					
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	48	1	1	1	3	6	8	9	2	1	0					



## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - LEAD	STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
UNIT - .01 MICROGRAMS/CU.METRE														
PERCENTILES														
34025	35 EDGAR AVE NORTH YORK WEST	51	1	1	1	3	8	12	15	2	1	0		
35003	ELMGREST RD (CENTENNIAL PK) ETOBICOKE	39	1	1	1	3	6	9	9	2	1	0		
35033	EVANS/ARNOLD AV ETOBICOKE	60	1	3	5	7	11	20	26	6	3	0		
36030	CLEARVIEW HTGS/KEELE ST YORK	30	1	2	5	6	8	20	24	5	2	0		
44005	2487 LAKESHORE E/BIRKBANK RDS OAKVILLE	256	1	1	2	3	4	8	20	2	1	0		
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	56	1	1	3	4	8	14	20	4	2	0		
44015	BRONTE RD/WOBURN CRES OAKVILLE	41	1	2	4	5	9	11	12	4	2	0		
45025	PS. RITSON RD/OLIVE AV OSHANA	60	1	1	2	4	7	11	13	3	1	0		
46033	FIRE HALL, BRAMALEA RD BRAMALEA	50	1	2	4	6	9	11	12	5	3	0		
46041	2414 DIXIE RD MISSISSAUGA	312	23	60	109	181	456	812	2199	182	104	23		
46045	2365 DIXIE RD MISSISSAUGA	325	4	12	23	49	144	380	1639	58	22	2		
46046	2360 DIXIE RD MISSISSAUGA	307	13	31	66	120	260	443	872	104	57	1		
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	56	1	1	3	4	7	11	12	3	1	0		
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	28	1	1	3	5	7	9	10	3	2	0		
48002	HWY47/E OF HWY48 STOUFFVILLE	56	1	1	2	3	7	23	26	3	1	0		
48140	CON 5 (BROWN PROP) RAVENSHOE	65	1	1	2	3	5	6	6	2	1	0		
48141	RR2 (THIGHAM PROP) KESWICK	55	1	1	1	2	3	4	5	1	1	0		
48142	RR2 (CALDERARO PROP) KESWICK	70	1	1	1	2	3	7	8	1	1	0		
61015	18 YOUNG STREET RED LAKE	56	1	1	2	4	33	513	599	30	2	1		
61016	98 DICKENSON ROAD BALHERTON	14	1	2	2	4	6	6	6	3	2	0		
61017	DICKENSON MINES LTD BALHERTON	14	1	1	2	3	4	63	95	9	2	0		
63005	HOSP. ARCHIBALD/ARTHUR STS THUNDER BAY	58	2	2	3	5	7	16	18	4	3	0		
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	57	1	2	3	4	6	11	13	3	3	0		
63200	MTG 615 JAMES ST S THUNDER BAY	56	1	1	3	5	9	15	21	4	2	0		
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	348	1	2	3	4	7	14	19	3	2	0		
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	49	1	2	2	3	4	7	7	3	2	0		

TABLE A-26 (CONT.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANT - LEAD	STATION NUMBER	LOCATION	UNIT - .01 MICROGRAMS/CU.METRE										TIMES ABOVE CRITERIA 24-HR
				NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	
71068			WM. MERRIFIELD SCHOOL	105	1	1	2	3	4	8	9	2	2	0
71072			SAULT STE MARIE											
			FIRST AV/SECOND LINE	92	1	2	2	3	4	7	8	2	2	0
75010			SAULT STE MARIE											
			OPP STN	46	1	1	2	3	4	7	7	2	1	0
77016			NORTH BAY											
			WATER TANK, ASH ST	47	1	2	3	4	9	12	12	4	3	0
77026			SUDBURY											
			19 LISGAR ST	53	2	3	4	4	6	13	15	4	3	0
77070			PUMPHOUSE, NICKEL ST											
			COPPER CLIFF	50	1	1	3	5	18	32	35	6	2	0

TABLE A-27 10-YEAR TREND FOR Pb

City	Annual Geometric mean (ug/m3)									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
BRAMALEA	.2	.2	.3	.3	.2	.2	.2	.1	.04	.03
CHATHAM	.3	.2	.2	.2	.2	.1	.1	.1	.04	.02
ETOBICOKE	.1	.2	.3	.3	.2	.2	.2	.1	.03	.01
HAMILTON	.5	.6	.4	.4	.4	.3	.3	.2	.12	.09
LONDON	.4	.3	.3	.3	.3	.2	.1	.1	.07	.04
MISSISSAUGA	.3	.4	.3	.3	.3	.2	.2	.1	.03	.01
NORTH BAY	.2	.2	.2	.2	.1	.1	.1	.1	.02	.01
NORTH YORK *	.4	.4	.3	.3	.3	.2	.2	.1	-	.01
OSHAWA	.3	.2	.2	.2	.2	.2	.1	.1	.03	.01
S.S. MARIE	.3	.2	.1	.2	.2	.2	.1	.1	.03	.03
SARNIA	.1	.1	.1	.2	.1	.1	.1	.0	.03	.01
SCARBOROUGH	.3	.3	.3	.3	.4	.3	.2	.1	.05	.02
SUDBURY	.1	.2	.1	.1	.1	.1	.1	.1	.03	.03
THUNDER BAY	.1	.2	.2	.2	.2	.1	.1	.1	.05	.03
TORONTO	.3	.4	.2	.3	.3	.2	.2	.1	.07	.04
WINDSOR	.3	.2	.2	.2	.2	.2	.2	.1	.05	.02

\* change of location from Science Centre (34002) to Yonge/Finch (34020)  
 - beginning in 1988 lead reported to .01 ug/m3

TABLE A-28 IRON (Fe) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											
YEAR - 1989		POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE			UNIT - .1 MICROGRAMS/CU.METRE						
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN
			10	30	50	70	90	99	MAX		
12002	CITY HALL, 444 WINDSOR AV	53	5	8	10	15	23	26	28	12	10
12005	7730 RIVERSIDE DR E WINDSOR	57	3	4	7	10	15	26	29	8	6
12007	WRIGHT/WATER ST WINDSOR	54	8	14	18	25	39	106	137	24	18
12008	467 UNIVERSITY AV W WINDSOR	318	6	9	11	16	24	39	65	14	11
12010	SEWAGE STN, HANNING RD WINDSOR	58	2	3	4	7	10	14	15	5	4
12011	DROUILLARD RD/RICHMOND ST WINDSOR	57	10	16	19	26	39	62	71	22	19
12013	FILTRAT PLY,3665 WYANDOTTE ST E WINDSOR	53	8	13	19	35	97	154	159	38	23
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	60	12	14	19	25	37	67	71	22	19
12016	COLLEGE/SOUTH ST WINDSOR	56	9	12	16	22	30	72	73	20	16
12038	2885 HOWARD AV WINDSOR	57	12	20	35	58	141	208	237	55	37
12039	DOUGLAS ST/E.C. ROW W WINDSOR	60	7	11	15	18	28	60	62	16	14
12047	DORRIN PLAZA, DOUGALL AV WINDSOR	51	5	9	11	14	22	32	36	12	11
12049	643 ALEXANDRINE WINDSOR	59	5	7	12	15	25	37	46	13	10
12051	604 CAPITOL/REHINGTON WINDSOR	55	5	9	15	24	38	50	53	19	15
13003	POST OFFICE, 10 CENTRE ST CHATHAM	59	2	4	6	7	10	21	21	6	5
14016	HWY40 (OPP LANBTON GS) COURTRIGHT	340	2	3	4	5	7	14	36	4	4
14030	RRI (W OF HOUSE) CORUNNA	51	1	2	3	4	9	17	17	4	3
14031	RRI (W OF BARN) MOORETOWN	52	1	2	2	4	7	12	14	3	2
14064	CENTENNIAL PK./FRONT ST/CN TRACKS SARHIA	56	1	2	3	5	8	15	19	4	3
14152	CHRISTINA/EXMOUTH ST SARHIA	66	3	4	7	8	11	19	22	7	6
14153	704 MARA ST POINT EDWARD SARHIA	64	2	3	5	6	11	22	27	6	5
15001	MRN FAIR GROUNDS, KING/RECTORY LONDON	59	2	5	7	9	15	24	26	8	6
15009	LONGWOODS CONSERVATION LONGWOODS	58	2	2	4	4	8	22	34	5	3
15014	POND HILLS RD/DEVERON CRES LONDON	60	2	4	5	8	12	20	28	7	5
15015	951 COMMISSIONERS RD E LONDON	59	2	3	4	5	7	19	23	4	3
15016	801 COMMISSIONERS RD E LONDON	59	1	3	4	5	7	16	20	6	3

UNIT - .1 MICROGRAMS/CU. METRE

YEAR - 1989		POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE				UNIT - .1 MICROGRAMS/CU.METRE						
STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN			
			10	30	50	70	90					
15017	8 MOUNTSFIELD DR LONDON	57	2	4	5	6	9	17	18	5	4	
22907	RAINFALL RD (NEAR STELCO GATE) NANTICOKE	51	7	11	19	28	71	92	96	26	18	
26029	EDNA/FREDERICK STS KITCHENER	56	2	4	6	8	12	21	22	7	5	
27008	71 KING ST ST CATHARINES	54	3	6	7	8	13	26	32	8	7	
29011	BURLINGTON/LEEDS HAMILTON	61	22	38	57	80	119	144	145	64	53	
29012	BURLINGTON/WELLINGTON HAMILTON	60	6	11	14	22	35	45	54	18	15	
29017	CHATHAM/FRID HAMILTON	55	8	15	20	28	48	60	61	24	19	
29025	BARTON/MENTWORTH HAMILTON	59	6	15	23	46	78	142	161	36	24	
29067	450 HUGHSON ST N HAMILTON	59	5	9	11	17	25	41	56	14	12	
29098	BAY/MAIN ST HAMILTON	60	3	6	10	20	50	71	72	18	12	
29102	467 BEACH BLVD HAMILTON	59	6	15	38	67	92	127	160	45	26	
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	3	7	9	15	37	76	77	16	10	
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	302	3	6	9	15	26	68	88	13	9	
31058	MOSLEY/LESLIE STS TORONTO	273	4	9	13	21	38	68	87	18	13	
31065	633 EASTERN AV TORONTO	322	4	8	12	19	33	70	74	16	12	
31085	TECUMSETH/HIAGARA ST TORONTO	307	5	9	12	18	31	93	250	18	12	
31104	26 BREADALBANE TORONTO	356	2	6	9	13	20	51	85	11	7	
31120	PERTH/RUCKIN(JUNCTION TRIANGLE) TORONTO	57	3	5	7	10	14	25	30	8	6	
31181	60 BATHURST ST TORONTO	221	6	10	14	21	33	77	124	18	14	
31183	FORT YORK TORONTO	315	5	9	12	17	26	65	71	15	12	
44005	2467 LAKESHORE E/BIRKBANK RDS OAKVILLE	256	2	4	5	8	13	30	64	7	5	
48140	CON 5 (BROWN PROP) RAVENSHOE	65	1	2	4	5	8	32	61	5	3	
48141	RR2 (JINGHAM PROP) KESWICK	55	1	1	2	3	4	20	50	3	2	
48142	RR2 (CALDERARO PROP) KESWICK	70	1	2	3	5	9	49	66	5	3	
61016	98 DICKENSON ROAD BALHERTON	14	1	1	5	9	22	30	31	8	2	
61017	DICKENSON MINES LTD BALHERTON	14	2	9	16	28	188	361	393	66	19	



TABLE A-28 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											
YEAR - 1989		POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE				UNIT - .1 MICROGRAMS/CU. METRE					
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN		
			10	30	50	70	90			99	MAX
63005	HOSP. ARCHIBALD/ARTHUR STS THUNDER BAY	58	3	6	11	16	32	48	50	14	10
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	57	2	5	9	14	23	51	53	12	8
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	348	10	28	77	135	256	581	1200	115	60
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	49	3	6	13	22	27	67	73	16	11
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	105	2	6	11	21	63	119	136	21	10
71072	FIRST AV/SECOND LINE SAULT STE MARIE	92	2	4	8	15	24	38	52	11	8
75010	OPP STN NORTH BAY	46	2	3	3	5	9	13	14	5	4
77016	WATER TANK, ASH ST SUDBURY	47	2	5	8	11	15	47	72	10	7
77026	19 LISGAR ST SUDBURY	53	2	5	10	13	22	34	36	11	7
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	50	5	8	11	18	31	79	102	17	12

TABLE A-29 10-YEAR TREND FOR Fe

Annual geometric mean ( $\mu\text{g}/\text{m}^3$ )

City	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CHATHAM	1.1	0.8	0.6	0.7	0.5	0.6	0.5	0.7	0.6	0.5
HAMILTON	2.6	2.3	2.5	2.2	2.3	1.9	2.8	2.5	2.7	2.4
LONDON	1.0	0.7	0.5	0.6	0.6	0.5	0.4	0.8	0.7	0.6
NORTH BAY	0.6	0.4	0.5	0.2	0.3	0.3	0.1	0.4	0.4	0.4
S.S.MARIE	1.9	1.2	0.5	0.5	0.7	1.2	0.5	1.1	0.9	1.0
SUDBURY	0.9	1.0	0.7	0.7	0.5	0.6	0.5	0.9	0.7	0.7
THUNDER BAY	1.3	1.0	1.0	0.9	1.2	0.8	1.0	1.0	1.0	1.0
TORONTO	0.6	0.9	0.7	0.8	0.8	0.7	0.6	0.8	0.9	0.7
WINDSOR	1.2	1.4	1.2	1.1	1.1	1.0	1.0	1.5	1.4	1.0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989 POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU. METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV	53	20	30	40	60	100	160	200	53	45	0
12005	WINDSOR 7730 RIVERSIDE DR E	57	10	20	30	40	70	116	160	36	28	0
12008	WINDSOR 467 UNIVERSITY AV W	318	20	40	50	70	110	205	260	59	48	0
12010	WINDSOR SENAGE STN, HANNING RD	59	5	10	20	30	50	80	80	24	18	0
12011	WINDSOR DROUILLARD RD/RICHMOND ST	57	30	60	80	102	158	389	480	97	76	0
12013	WINDSOR FILTRAT PLT, 3665 WYANDOTTE ST E	53	30	50	80	164	546	835	840	185	99	0
12015	WINDSOR SENAGE STN, HWY 18/PROSPECT	60	40	60	80	100	140	260	380	89	77	0
12038	WINDSOR 2885 HOWARD AV	57	40	50	80	112	180	248	290	93	76	0
12039	WINDSOR DOUGLAS ST/E.C. ROW W	60	30	40	55	70	100	148	160	60	54	0
12047	WINDSOR DORWIN PLAZA, DOUGALL AV	51	20	30	40	50	70	105	110	43	38	0
12049	WINDSOR 643 ALEXANDRINE	59	20	30	40	50	72	98	110	42	36	0
12051	WINDSOR 604 CAPITOL/REMINGTON	55	20	30	50	70	100	130	130	55	46	0
13003	WINDSOR POST OFFICE, 10 CENTRE ST	59	10	20	20	30	40	70	70	26	22	0
14016	CHATHAM HWY40 (OPP LAMTON GS)	340	5	5	10	20	20	40	50	13	10	0
14030	COURTRIGHT RRI (W OF HOUSE)	51	5	5	10	20	30	55	60	15	11	0
14031	CORUNNA RRI (W OF BARN)	52	5	5	10	10	20	40	40	12	9	0
14064	MOORETOWN CENTENNIAL PK, FRONT ST/CN TRACKS	56	5	7	10	20	30	40	40	14	11	0
14152	SARNIA CHRISTINA/EXMOUTH ST	66	10	20	30	40	50	89	140	30	25	0
14153	SARNIA 704 MARA ST POINT EDWARD	64	6	10	20	30	47	85	120	25	19	0
15001	WRRN FAIR GROUNDS, KING/RECTORY	59	20	20	30	46	62	166	210	40	33	0
15009	LONDON LONGMOODS CONSERVATION	58	5	10	10	20	33	67	100	19	14	0
15014	LONDON POND HILLS RD/DEVERON CRES	60	10	20	30	40	60	78	90	35	30	0
15015	LONDON 951 COMMISSIONERS RD E	59	10	10	20	30	40	58	70	23	19	0
15016	LONDON 801 COMMISSIONERS RD E	59	5	20	20	20	40	58	70	22	18	0
15017	LONDON 8 HOUNTSFIELD DR	57	10	20	20	40	54	74	80	30	24	0
22907	RAINHAM RD (NEAR STELCO GATE)	51	30	60	80	120	320	455	530	123	84	0
	NANTICOKE											

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
 POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU. METRE

YEAR - 1989

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90					
26029	EDNA/FREDERICK STS KITCHENER	56	20	30	50	75	100	171	200	57	44	0
27008	71 KING ST ST CATHARINES	54	30	40	45	50	77	105	110	48	45	0
29011	BURLINGTON/LEEDS HAMILTON	61	160	250	340	510	800	1022	1140	422	353	0
29012	BURLINGTON/WELLINGTON HAMILTON	60	50	90	130	170	281	783	1450	168	124	0
29017	CHATHAM/FRID HAMILTON	55	50	90	130	198	336	520	600	171	131	0
29025	BARTON/WENTWORTH HAMILTON	59	58	120	190	376	592	1979	3950	332	199	1
29067	450 HUGHSON ST N HAMILTON	59	30	64	80	136	242	372	440	116	89	0
29098	BAY/HAIN ST HAMILTON	60	20	50	60	110	326	858	900	141	77	0
29102	467 BEACH BLVD HAMILTON	59	48	140	270	400	614	724	730	296	195	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	30	40	60	100	274	454	500	106	70	0
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	302	20	30	40	60	100	180	340	54	43	0
31058	MOSLEY/LESLIE STS TORONTO	273	20	40	60	90	148	296	460	77	60	0
31065	633 EASTERN AV TORONTO	322	20	40	60	80	140	246	390	72	58	0
31085	TECUMSETH/NIAGARA ST TORONTO	307	20	30	50	70	120	239	340	61	48	0
31104	26 BREADALBAHE TORONTO	356	20	30	40	60	85	180	220	50	42	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	56	20	30	40	50	65	106	150	41	35	0
31181	60 BATHURST ST TORONTO	221	30	40	60	80	130	224	290	67	55	0
31183	FORT YORK TORONTO	315	20	30	50	60	100	249	270	60	48	0
44005	2487 LAKESHORE E/BIRKBANK RDS OKAVILLE	115	10	20	30	40	60	119	130	36	27	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	58	20	30	40	60	100	150	180	52	42	0
63022	HOSPITAL, 35 ALGOHA ST N THUNDER BAY	57	15	30	40	60	108	144	150	51	38	0
71042	PUPHOUSE, BONNEY ST SAULT STE MARIE	348	80	230	525	860	1351	2427	2690	635	392	1
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	49	20	40	70	100	180	325	350	90	62	0
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	105	20	40	70	148	390	723	1010	141	78	0
71072	FIRST AV/SECOND LINE SAULT STE MARIE	92	20	30	65	100	228	318	410	92	59	0
75010	OPP 5TH NORTH BAY	46	5	10	20	30	40	55	60	21	17	0

TABLE A-30 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											
YEAR - 1989		POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE									
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES				MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90				
77016	WATER TANK, ASH ST SUDBURY	47	5	10	10	20	20	30	14	12	0
77026	19 LISGAR ST SUDBURY	53	5	20	30	30	40	63	25	21	0



TABLE A-31 NICKEL (ND) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989		POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE			UNIT - .001 MICROGRAMS/CU. METRE							
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR		
			10	30	50	70	90					
12002	CITY HALL, 444 WINDSOR AV WINDSOR	53	5	5	5	10	30	293	320	23	9	0
12005	7730 RIVERSIDE DR E WINDSOR	57	5	5	5	5	10	20	20	7	6	0
12008	467 UNIVERSITY AV W WINDSOR	318	5	5	5	10	20	120	350	14	8	0
12010	SEWAGE STN, HANMING RD WINDSOR	58	5	5	5	5	6	10	10	6	5	0
12011	DROUILLARD RD/RICHMOND ST WINDSOR	57	5	5	5	10	24	134	140	16	9	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	53	5	5	5	10	20	56	80	11	8	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	60	5	5	5	5	10	27	40	7	6	0
12038	2885 HOWARD AV WINDSOR	57	5	5	5	10	13	73	120	11	8	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	60	5	5	5	5	5	31	60	7	6	0
12047	DORMIN PLAZA, DOUGALL AV WINDSOR	51	5	5	5	5	10	32	50	7	6	0
12049	643 ALEXANDRINE WINDSOR	59	5	5	5	5	5	13	20	5	5	0
12051	604 CAPITOL/REHINGTON WINDSOR	55	5	5	5	5	8	10	10	6	5	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	59	5	5	5	5	5	10	10	5	5	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	5	5	5	5	10	40	50	7	6	0
14030	RRI (W OF HOUSE) CORUNHA	51	5	5	5	5	5	10	10	5	5	0
14031	RRI (W OF BARN) HOORETOWN	52	5	5	5	5	5	10	10	5	5	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	56	5	5	5	5	14	34	40	8	7	0
15001	WRH FAIR GROUNDS, KING/RECTORY LONDON	59	5	5	5	5	5	7	10	5	5	0
15009	LONGWOODS CONSERVATION LONGWOODS	58	5	5	5	5	5	10	10	5	5	0
15014	POND HILLS RD/DEVERON CRES LONDON	60	5	5	5	5	5	13	20	6	5	0
15015	951 COMMISSIONERS RD E LONDON	59	5	5	5	5	10	24	30	7	6	0
15016	801 COMMISSIONERS RD E LONDON	59	5	5	5	5	10	30	30	6	6	0
15017	6 HOUTSFIELD DR LONDON	57	5	5	5	5	7	16	30	6	5	0
22907	RAITHAM RD (NEAR STELCO GATE) NANTICOKE	51	5	5	5	5	5	17	30	6	5	0
26029	EDNA/FREDERICK STS KITCHENER	56	5	5	5	5	5	7	10	5	5	0
27008	71 KING ST ST CATHARINES	54	5	5	5	5	8	19	40	6	6	0

TABLE A-31 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989		POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE			UNIT - .001 MICROGRAMS/CU.METRE							
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
			10	30	50	70	90	MAX				
27047	DAVIS/FRAZER	57	20	38	60	102	358	3106	3660	249	76	2
29011	PORT COLBORNE											
	BURLINGTON/LEEDS	61	5	5	5	10	10	20	20	7	7	0
29012	BURLINGTON/WELLINGTON											
	HAMILTON	60	5	5	5	5	5	22	70	6	5	0
29017	CHATHAM/FRID											
	HAMILTON	55	5	5	5	5	5	14	20	5	5	0
29025	BARTON/WENTWORTH											
	HAMILTON	59	5	5	5	10	10	24	30	7	7	0
29067	450 HUGHSON ST N											
	HAMILTON	60	5	5	5	5	5	10	10	5	5	0
29098	BAY/HAIN ST											
	HAMILTON	60	5	5	5	5	5	10	10	5	5	0
29102	467 BEACH BLVD											
	HAMILTON	59	5	5	5	5	10	22	24	6	6	0
29114	VICKERS RD/EAST 18TH ST											
	HAMILTON	56	5	5	5	5	10	38	50	7	6	0
31045	BRUCE PS, 51 LARCHMOUNT AV											
	TORONTO	302	5	5	5	5	10	20	20	6	6	0
31058	MOSLEY/LESLIE STS											
	TORONTO	273	5	5	5	10	10	30	40	8	7	0
31065	633 EASTERN AV											
	TORONTO	322	5	5	5	5	10	28	40	7	6	0
31085	TECUMSETH/NIAGARA ST											
	TORONTO	307	5	5	5	5	10	89	380	10	6	0
31104	26 BREADALBANE											
	TORONTO	356	5	5	5	5	10	10	80	6	5	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE)											
	TORONTO	57	5	5	5	5	10	10	10	6	6	0
31181	60 BATHURST ST											
	TORONTO	221	5	5	5	5	10	30	80	7	6	0
31183	FORT YORK											
	TORONTO	315	5	5	5	5	10	20	50	6	6	0
44005	2487 LAKESHORE E/BIRKBANK RDS											
	OAKVILLE	256	5	5	5	10	18	30	35	9	7	0
46140	CON 5 (BROWN PROP)											
	RAVENSHOE	65	1	3	7	11	18	24	32	9	6	0
46141	RR2 (LINGHAM PROP)											
	KESWICK	55	3	6	9	12	21	30	33	11	8	0
46142	RR2 (CALDERARO PROP)											
	KESWICK	70	1	4	8	10	20	49	52	10	6	0
63005	HOSP, ARCHIBALD/ARTHUR STS											
	THUNDER BAY	58	5	5	5	5	5	5	5	5	5	0
63022	HOSPITAL, 35 ALGOHA ST N											
	THUNDER BAY	57	5	5	5	5	5	5	5	5	5	0
71042	PUMPHOUSE, BONNEY ST											
	SAULT STE MARIE	348	5	5	5	5	10	30	50	7	6	0
71049	LAND OFFICE, QUEEN ST											
	SAULT STE MARIE	49	5	5	5	5	10	10	10	6	5	0
71068	WM. MERRIFIELD SCHOOL											
	SAULT STE MARIE	105	5	5	5	5	5	10	10	5	5	0



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989 POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
			10	30	50	70	90	99	MAX			
12002	CITY HALL, 444 WINDSOR AV WINDSOR	53	5	5	5	10	17	62	100	10	7	0
12005	7730 RIVERSIDE DR E WINDSOR	57	5	5	5	5	10	14	20	6	6	0
12008	467 UNIVERSITY AV W WINDSOR	318	5	5	10	20	30	50	80	13	10	0
12010	SEWAGE STN, HANNING RD WINDSOR	58	5	5	5	5	10	10	10	6	5	0
12011	DROUILLARD RD/RICHMOND ST WINDSOR	57	5	5	5	10	24	44	50	11	9	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	53	5	10	10	20	40	73	110	18	13	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	60	5	5	5	5	10	20	20	7	6	0
12038	2885 HOWARD AV WINDSOR	57	5	9	10	20	40	78	90	18	13	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	60	5	5	5	5	10	20	20	6	6	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	51	5	5	5	5	10	24	30	7	6	0
12049	643 ALEXANDRINE WINDSOR	59	5	5	5	5	5	10	10	5	5	0
12051	604 CAPITOL/RENINGTON WINDSOR	55	5	5	5	5	15	41	60	9	7	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	59	5	5	5	8	20	20	20	8	7	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	5	5	5	5	10	30	40	7	6	0
14030	RR1 (W OF HOUSE) CORUNNA	51	5	5	5	5	5	14	20	6	5	0
14031	RR1 (W OF BARN) MOORETOWN	52	5	5	5	5	5	5	5	5	5	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	56	5	5	5	5	10	14	20	6	6	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	59	5	5	5	5	30	50	50	10	7	0
15009	LONGHOODS CONSERVATION LONGHOODS	58	5	5	5	5	14	34	40	8	7	0
15014	POND HILLS RD/DEVERON CRES LONDON	60	5	5	5	5	5	10	10	6	5	0
15015	951 COMMISSIONERS RD E LONDON	59	5	5	5	5	10	20	20	7	6	0
15016	801 COMMISSIONERS RD E LONDON	59	5	5	5	5	10	24	30	6	6	0
15017	8 MOUNTSFIELD DR LONDON	57	5	5	5	5	10	20	20	7	6	0
22907	RAINHAM RD (NEAR STELCO GATE) HANTICOKE	51	5	5	5	10	10	39	50	8	7	0
26029	EDNA/FREDERICK STS KITCHENER	56	5	5	5	5	10	24	30	7	6	0
27008	71 KING ST ST CATHARINES	54	5	5	5	5	20	20	20	8	7	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
			30	50	70	90	99	MAX				
29011	BURLINGTON/LEEDS HAMILTON	61	10	20	30	30	40	70	29	25	0	
29012	BURLINGTON/WELLINGTON HAMILTON	60	5	5	5	10	30	44	50	11	8	
29017	CHATHAM/FRID HAMILTON	55	5	5	5	20	30	50	50	14	0	
29025	BARTON/WENTWORTH HAMILTON	59	5	5	20	30	50	64	70	22	15	
29067	450 HUGHSON ST N HAMILTON	60	5	5	5	6	20	30	30	9	7	
29098	BAY/HAIN ST HAMILTON	60	5	5	5	5	11	53	80	8	6	
29102	467 BEACH BLVD HAMILTON	59	5	5	8	20	30	51	58	14	10	
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	5	5	5	5	10	38	50	8	6	
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	302	5	5	5	10	20	40	50	8	7	
31058	MOSLEY/LESLIE STS TORONTO	273	5	5	5	10	20	40	50	10	8	
31065	633 EASTERN AV TORONTO	322	5	10	20	30	50	130	290	24	16	
31085	TECUMSETH/NIAGARA ST TORONTO	307	5	5	5	10	20	40	60	10	8	
31104	26 BREADALBANE TORONTO	356	5	5	5	5	10	20	60	7	6	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	57	5	5	5	10	10	20	20	7	7	
31181	60 BATHURST ST TORONTO	221	5	5	10	10	20	38	60	11	9	
31183	FORT YORK TORONTO	315	5	5	5	10	20	38	70	9	8	
44005	2487 LAKESHORE E/BIRKBANK RDS OAKVILLE	256	3	5	5	8	14	37	40	12	6	
48140	CON 5 (BROWN PROP) RAVENSHOE	65	1	1	5	7	11	34	53	6	4	
48141	RR2 (INGHAM PROP) KESWICK	55	1	1	4	5	7	25	36	5	3	
48142	RR2 (CALDERARO PROP) KESWICK	70	1	2	4	6	11	34	57	6	4	
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	58	5	5	5	5	5	10	10	5	5	
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	57	5	5	5	5	10	20	20	7	6	
71042	PURPHOUSE, BOINNEY ST SAULT STE MARIE	5	1	2	46	81	119	138	140	56	14	
75010	OPP STN NORTH BAY	46	5	5	5	5	10	20	20	7	6	
77016	WATER TANK, ASH ST SUDBURY	47	5	5	5	5	5	7	10	5	5	
77026	19 LISGAR ST SUDBURY	53	5	5	5	5	5	47	250	10	6	



TABLE A-32 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989	POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE		UNIT - .001 MICROGRAMS/CU.METRE										
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	50	70	90	99				MAX
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	50	5	5	5	5	5	5	18	30	6	5	0

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TABLE A-33 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989		POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE				UNIT - .001 MICROGRAMS/CU.METRE							
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99	MAX				
29011	BURLINGTON/LEEDS	61	1	1	2	3	4	8	9	2	1	0	
29012	HAMILTON	60	1	1	1	1	2	3	4	0	0	0	
29017	BURLINGTON/WELLINGTON	55	1	1	1	1	2	5	7	0	0	0	
29025	CHATHAM/FRID	59	1	1	1	2	4	7	8	1	1	0	
29067	BARTON/MENTWORTH	60	1	1	1	1	1	2	2	0	0	0	
29067	HAMILTON	60	1	1	1	1	2	4	4	1	0	0	
29098	450 HUGHSON ST N	60	1	1	1	1	2	4	25	3	1	0	
29098	HAMILTON	56	1	1	1	1	2	3	3	0	0	0	
29102	BAY/MAIN ST	302	1	1	1	2	4	9	13	1	1	0	
29102	HAMILTON	273	1	1	1	2	5	13	23	2	1	0	
29114	467 BEACH BLVD	322	1	1	1	2	4	12	20	2	1	0	
29114	HAMILTON	307	1	1	1	1	2	7	8	1	0	0	
31045	VICKERS RD/EAST 18TH ST	356	1	1	1	1	2	6	72	1	1	0	
31045	HAMILTON	57	1	1	1	2	3	15	16	2	1	0	
31058	BRUCE PS, 51 LARCHMOUNT AV	221	1	1	1	1	2	3	6	0	0	0	
31058	TORONTO	315	1	1	1	1	2	4	8	1	0	0	
31065	MOSLEY/LESLIE STS	256	1	1	25	25	100	130	18	4	0	0	
31065	TORONTO	65	25	25	25	25	70	103	130	34	30	0	
31085	633 EASTERN AV	55	25	25	25	44	70	99	110	38	34	0	
31085	TORONTO	70	25	25	25	25	61	113	120	34	30	0	
31104	TECUMSETH/NIAGARA ST	58	1	1	1	1	1	1	1	0	0	0	
31104	TORONTO	57	1	1	1	1	1	1	1	0	0	0	
31120	26 BREADALBANE	57	1	1	1	1	1	1	1	0	0	0	
31120	TORONTO	57	1	1	1	1	2	3	15	16	2	1	0
31181	PERTH/RUSKIN(JUNCTION TRIANGLE)	221	1	1	1	1	1	2	3	6	0	0	0
31181	TORONTO	315	1	1	1	1	2	4	8	1	0	0	0
31183	60 BATHURST ST	256	1	1	25	25	100	130	18	4	0	0	0
31183	TORONTO	65	25	25	25	25	70	103	130	34	30	0	0
44005	2487 LAKESHORE E/DIRKBANK RDS	55	25	25	25	44	70	99	110	38	34	0	0
44005	OAKVILLE	70	25	25	25	25	61	113	120	34	30	0	0
48140	CON 5 (BROWN PROP)	58	1	1	1	1	1	1	1	0	0	0	0
48140	RAVENSHOE	57	1	1	1	1	1	1	1	0	0	0	0
48141	RR2 (INGHAM PROP)	5	25	25	25	50	71	79	80	43	38	0	0
48141	KESWICK	46	1	1	1	1	1	1	1	0	0	0	0
48142	RR2 (CALDERARO PROP)	47	1	1	1	2	2	5	11	12	2	1	0
63005	KESWICK	53	1	1	1	1	1	1	3	7	0	0	0
63005	HOSP, ARCHIBALD/ARTHUR STS	46	1	1	1	1	1	1	1	0	0	0	0
63022	THUNDER BAY	57	1	1	1	1	1	1	1	0	0	0	0
63022	HOSPITAL, 35 ALGOMA ST N	5	25	25	25	50	71	79	80	43	38	0	0
71042	THUNDER BAY	46	1	1	1	1	1	1	1	0	0	0	0
71042	PUMPHOUSE, BONNEY ST	47	1	1	1	2	2	5	11	12	2	1	0
75010	SAULT STE MARIE	53	1	1	1	1	1	1	3	7	0	0	0
75010	OPP STN	46	1	1	1	1	1	1	1	0	0	0	0
77016	NORTH BAY	47	1	1	1	1	1	1	1	0	0	0	0
77016	WATER TANK, ASH ST	53	1	1	1	1	1	1	3	7	0	0	0
77026	SUDBURY	46	1	1	1	1	1	1	1	0	0	0	0
77026	19 LISGAR ST	47	1	1	1	2	2	5	11	12	2	1	0
77026	SUDBURY	53	1	1	1	1	1	1	3	7	0	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1989	POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE										
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES				MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR		
			10	30	50	70	90					
77070	PURPHOUSE NICKEL ST SUDBURY	50	1	1	1	4	16	39	5	1		0

TABLE A-34 VANADIUM (V) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1989		POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE							UNIT - .001 MICROGRAMS/CU.METRE				
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR			
			10	30	50	70	90						
12002	CITY HALL, 444 WINDSOR AV WINDSOR	53	5	5	5	5	10	38	50	8	7	0	
12005	7730 RIVERSIDE DR E WINDSOR	57	5	5	5	5	10	20	68	80	10	7	0
12008	467 UNIVERSITY AV W WINDSOR	318	5	5	5	5	10	20	68	80	11	8	0
12010	SEWAGE STN, HANNING RD WINDSOR	58	5	5	5	5	10	20	24	30	9	7	0
12011	DROUILLARD RD/RICHMOND ST WINDSOR	57	5	5	5	5	10	20	30	30	10	8	0
12013	FILTRAT PLT,3665 WYANDOTTIE ST E WINDSOR	53	5	5	5	5	5	17	24	30	7	6	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	60	5	5	5	5	10	20	34	40	8	7	0
12038	2885 HOWARD AV WINDSOR	57	5	5	5	5	5	20	24	30	9	7	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	60	5	5	5	5	5	11	27	40	8	6	0
12047	DORRIN PLAZA, DOUGALL AV WINDSOR	51	5	5	5	5	10	20	30	30	9	7	0
12049	643 ALEXANDRINE WINDSOR	59	5	5	5	5	8	20	20	20	8	7	0
12051	604 CAPITOL/REMINGTON WINDSOR	55	5	5	5	5	5	10	28	40	8	6	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	59	5	5	5	5	5	20	37	50	9	7	0
14016	HWY40 (OPP LAMBTON GS) COURTHRIGHT	340	5	5	5	5	10	30	140	320	16	9	0
14030	RR1 (W OF HOUSE) CORUNNA	51	5	5	5	5	10	30	40	40	11	8	0
14031	RR1 (W OF BARN) MOORETOWN	52	5	5	5	5	10	20	40	40	9	7	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARLIA	56	5	5	5	5	10	30	124	160	17	9	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	59	5	5	5	5	5	20	27	40	8	7	0
15009	LONGWOODS CONSERVATION LONGWOODS	58	5	5	5	5	5	10	24	30	7	6	0
15014	POND HILLS RD/DEVERON CRES LONDON	60	5	5	5	5	5	10	34	40	8	6	0
15015	951 COMMISSIONERS RD E LONDON	59	5	5	5	5	5	10	30	30	7	6	0
15016	801 COMMISSIONERS RD E LONDON	59	5	5	5	5	5	20	34	40	8	7	0
15017	8 HOUTSFIELD DR LONDON	57	5	5	5	5	10	30	34	40	11	8	0
22907	RAINFHAM RD (NEAR STELCO GATE) NAHTICOKE	51	5	5	5	5	10	20	46	70	9	7	0
26029	EDNA/FREDERICK STS KITCHENER	56	5	5	5	5	5	10	20	20	7	6	0
27008	71 KING ST ST CATHARINES	54	5	5	5	5	5	20	24	30	8	7	0



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
 POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU. METRE

YEAR - 1989	STATION NUMBER	LOCATION	PERCENTILES										ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
			NO OF SAMPLES	10	30	50	70	90	99	HAX					
	29011	BURLINGTON/LEEDS HAMILTON	61	5	5	5	10	20	40	60	11	9			0
	29012	BURLINGTON/WELLINGTON HAMILTON	60	5	5	5	5	20	58	100	10	7			0
	29017	CHATHAM/FRID HAMILTON	55	5	5	5	9	20	44	70	9	7			0
	29025	BARTON/WENTWORTH HAMILTON	59	5	5	5	10	20	40	40	10	8			0
	29067	450 HUGHSON ST N HAMILTON	60	5	5	5	5	20	24	30	8	7			0
	29098	BAY/HAIN ST HAMILTON	60	5	5	5	5	10	20	20	7	6			0
	29102	467 BEACH BLVD HAMILTON	59	5	5	5	10	21	44	50	10	7			0
	29114	VICKERS RD/EAST 18TH ST HAMILTON	56	5	5	5	5	10	24	30	7	6			0
	31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	302	5	5	5	5	10	30	40	7	6			0
	31058	MOSLEY/LESLIE STS TORONTO	273	5	5	5	10	20	30	40	9	7			0
	31065	633 EASTERN AV TORONTO	322	5	5	5	10	20	30	50	8	7			0
	31085	TECUMSETH/NIAGARA ST TORONTO	307	5	5	5	5	20	30	50	8	7			0
	31104	26 BREADALBANE TORONTO	356	5	5	5	5	10	20	20	7	6			0
	31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	57	5	5	5	5	10	24	30	7	6			0
	31181	60 BATHURST ST TORONTO	221	5	5	5	10	20	40	40	10	8			0
	31183	FORT YORK TORONTO	315	5	5	5	10	20	48	60	10	8			0
	44005	2487 LAKESHORE E/BIRKBEAK RDS OAKVILLE	256	2	5	5	5	10	25	59	6	5			0
	48140	CON 5 (BROWN PROP) RAVENSHOE	65	2	2	2	2	8	29	45	4	3			0
	48141	RR2 (INGHAM PROP) KESWICK	55	2	2	2	2	7	17	39	3	3			0
	48142	RR2 (CALDERARO PROP) KESWICK	70	2	2	2	2	6	24	51	4	3			0
	63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	58	5	5	5	5	12	30	30	8	7			0
	63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	57	5	5	5	5	10	30	30	7	6			0
	71042	PURPHOUSE, BONEY ST SAULT STE MARIE	5	2	3	16	39	54	58	58	25	11			0
	75010	OPP STN NORTH BAY	46	5	5	5	5	10	25	30	7	6			0
	77016	WATER TANK, ASH ST SUDBURY	47	5	5	5	5	5	7	10	5	5			0
	77026	19 LISGAR ST SUDBURY	53	5	5	5	5	5	10	10	5	5			0

POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU. METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
77070	PUMPHOUSE NICKEL ST SUDBURY	50	5	5	5	5	10	20	20	6	6	0

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989	POLLUTANTS - CHROMIUM IN TSP IRON IN TSP CADMIUM	STATION NUMBER	LOCATION	NO OF SAMPLES	CR MAX	VV MAX	FE MAX	NI MAX	CD MAX	MN MAX
	UNIT - .001 UG/M3 UNIT - .1 UG/M3 UNIT - .001 UG/M3									
12002	CITY HALL, 444 WINDSOR AV WINDSOR	53	100	50	28	320	8	200		
12005	7730 RIVERSIDE DR E WINDSOR	57	20	80	29	20	7	160		
12007	WRIGHT/WATER ST WINDSOR	54	N/A	N/A	137	N/A	N/A	N/A		
12008	467 UNIVERSITY AV W WINDSOR	318	80	80	65	340	25	260		
12010	SENAGE STN, HANNING RD WINDSOR	58	10	30	15	10	4	80		
12013	FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	53	43	30	159	80	7	840		
12015	SENAGE STN, HWY 18/PROSPECT WINDSOR	60	20	40	71	40	28	380		
12016	COLLEGE/SOUTH ST WINDSOR	56	N/A	N/A	73	N/A	N/A	N/A		
12038	2885 HOWARD AV WINDSOR	57	90	30	237	120	8	290		
12039	DOUGLAS ST/E.C ROW W WINDSOR	60	20	40	62	60	14	160		
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	51	30	30	36	50	12	110		
12049	643 ALEXANDRINE WINDSOR	59	10	20	46	20	11	110		
12051	604 CAPITOL/REHINGTON WINDSOR	55	60	40	53	10	12	130		
13003	POST OFFICE, 10 CENTRE ST CHATHAM	59	20	50	21	10	3	70		
14016	HWY40 (OPP LAMTON GS) COURTRIGHT	340	40	320	36	50	3	50		
14030	RR1 (W OF HOUSE) CORUNHA	51	20	40	17	10	80	60		
14031	RR1 (W OF BARN) MOORETOWN	52	5	40	14	10	2	40		
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	56	20	160	19	40	2	40		
14152	CHRISTINA/EXMOUTH ST SARNIA	66	N/A	N/A	22	N/A	N/A	140		
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	59	50	40	26	10	5	210		
15009	LONGWOODS CONSERVATION AUTHORITY LONGWOODS	58	40	30	34	10	1	100		
15014	POIND HILLS RD/DEVERON CRES LONDON	60	10	40	28	20	2	90		
15015	951 COMMISSIONERS RD. E LONDON	59	20	30	23	30	2	70		
15016	861 COMMISSIONERS RD. E LONDON	59	20	30	23	30	2	70		

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

STATION NUMBER	YEAR - 1989	POLLUTANTS - IRON CHROMIUM CADMIUM	LOCATION	UNIT - IN TSP IN TSP IN TSP	NO OF SAMPLES	CR MAX	VV MAX	FE MAX	NI MAX	CD MAX	MN MAX
15017			8 MOUNTSFIELD DR.								
22907			LONDON		57	20	40	18	30	4	80
26029			RAINHAM RD (NEAR STELCO GATE)		51	50	70	96	30	15	530
27008			NANTICOKE		56	30	20	22	10	2	200
27047			EDNA/FREDERICK STS		54	20	30	32	40	1	110
29011			KITCHENER		57	N/A	N/A	N/A	3360	N/A	N/A
29012			71 KING ST		61	70	6	145	20	9	1140
29017			ST CATHARINES		60	50	100	54	70	4	1450
29025			DAVIS/FRASER ST		55	50	70	61	20	7	60
29067			PORT COLBORNE		59	70	40	161	30	8	3950
29098			BURLINGTON/LEEDS		59	30	30	56	10	2	440
29102			HAMILTON		60	80	20	72	10	4	900
29114			467 BEACH BLVD		59	58	50	160	24	25	730
31045			HAMILTON		56	50	30	77	50	3	500
31058			VICKERS RD/EAST 18TH ST		302	50	40	88	20	13	340
31065			BRUCE, PS, 51 LARCHMOUNT AV		273	50	40	87	40	23	460
31085			TORONTO		322	290	50	74	40	20	390
31104			MOSLEY/LESLIE ST		307	60	50	250	380	8	340
31120			TORONTO		356	60	20	85	80	72	220
31181			PERTH/RUSKIN (JUNCTION TRIANGLE)		57	20	30	30	10	16	150
31183			60 BATHURST ST		221	60	40	124	80	6	290
44005			TORONTO		315	70	60	71	50	8	270
48140			FORT YORK		256	40	59	64	35	130	130
			2487 LAKESHORE E/BURBANK AV		65	53	45	61	32	N/A	180
			OAKVILLE								
			CON 5 (BROWN PROP)								
			RAVENSHOE								





TABLE A-36 NITRATE (NO<sub>3</sub>) STATISTICS (1989)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
 YEAR - 1989 POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN
			10	30	50	70	90	99	MAX		
12002	CITY HALL, 444 WINDSOR. AV	53	9	17	23	35	63	97	128	31	23
12008	WINDSOR 467 UNIVERSITY AV W	318	24	39	55	73	98	165	203	59	51
12015	WINDSOR SEWAGE STN, HWY 18/PROSPECT	59	15	23	37	47	77	163	173	43	34
12038	WINDSOR 2885 HOWARD AV	57	18	28	49	64	92	148	157	52	43
12039	WINDSOR DOUGLAS ST/E.C. ROW W	60	15	25	35	52	67	100	104	40	34
12047	WINDSOR DORWIN PLAZA, DOUGALL AV	51	11	27	40	58	78	97	99	43	35
12049	WINDSOR 643 ALEXANDRINE	59	11	19	30	37	48	95	98	31	26
12051	WINDSOR 604 CAPITOL/REHINGTON	55	9	15	22	37	57	130	134	31	23
14016	WINDSOR HWY40 (OPP LAMTON GS)	340	15	26	39	57	86	134	195	46	37
14064	COURTRIGHT CENTENNIAL PK, FRONT ST/CN TRACKS	56	8	23	33	44	78	134	157	39	30
15001	SARNIA WRN FAIR GROUNDS, KING/RECTORY	59	16	24	46	64	83	143	154	49	39
15014	LONDON POND MILLS RD/DEVERON CRES	60	20	39	56	68	98	153	166	58	50
15015	LONDON 951 COMMISSIONERS RD E	59	16	28	47	66	96	148	153	52	40
15016	LONDON 801 COMMISSIONERS RD E	59	15	26	46	57	76	123	140	46	37
15017	LONDON 8 MOUNTSFIELD DR	57	23	43	51	64	103	165	179	59	48
22904	WALPOLE S PS, SANDUSK RD	45	17	30	48	65	83	127	140	50	37
26029	NANTICOKE EDNA/FREDERICK STS	56	16	29	50	65	89	117	118	51	42
27008	KITCHENER 71 KING ST	54	22	35	45	62	84	111	138	50	43
27056	ALLENDALE AV	52	22	32	41	58	71	102	103	46	41
28028	NIAGARA FALLS EXHIBITION ST/CLARK ST	58	12	26	42	59	78	123	132	46	36
29011	GUELPH BURLINGTON	61	17	32	40	54	83	109	144	45	38
29012	HAMILTON BURLINGTON/WELLINGTON	60	18	32	45	60	81	115	130	49	41
29017	HAMILTON CHATHAM/FRID	55	14	31	48	63	89	135	164	50	40
29025	HAMILTON BARTON/MENTWORTH	59	23	36	55	69	87	130	134	56	47
29087	HAMILTON 405 CUMBERLAND AV	61	10	21	31	40	69	88	95	34	28
29098	HAMILTON BAY/HAIN ST	60	16	29	39	58	90	113	132	47	39

TABLE A-36 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											
YEAR - 1989		POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE			UNIT - .1 MICROGRAMS/CU.METRE						
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES			99	MAX	ARITH MEAN	GEOM MEAN
					50	70	90				
29102	467 BEACH BLVD HAMILTON	59	21	33	47	65	82	104	108	50	43
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	22	41	51	73	96	125	128	57	46
31104	26 BREADALBANE TORONTO	356	16	30	47	65	95	194	280	54	42
32010	LEASIDE HYDRO STATION EAST YORK	36	12	21	42	57	78	99	105	44	35
33003	LAWRENCE/KENNEDY SCARBORO	59	14	25	42	56	86	153	246	48	37
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	48	11	23	34	46	69	123	172	39	31
34025	35 EDGAR AVE NORTH YORK WEST	51	16	23	41	53	79	140	201	45	36
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	39	12	24	43	56	84	146	180	47	36
35033	EVANS/ARNOLD AV ETOBICOKE	60	13	29	49	65	96	174	254	54	42
36030	CLEARVIEW HTGS/KEELE ST YORK	30	7	24	45	58	78	99	99	44	32
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	56	17	28	44	52	75	98	101	44	38
44015	BRONTE RD/MOBYURN CRES OAKVILLE	41	19	36	52	56	76	96	100	49	41
45025	PS, RITSON RD/OLIVE AV OSHANA	60	12	24	35	60	87	162	254	47	35
46033	FIRE HALL, BRAMALEA RD BRAMALEA	50	11	21	46	75	108	158	187	55	38
46110	QUEENSHAW W/HURONTARIO ST MISSISSAUGA	56	11	20	26	39	53	84	98	31	26
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	17	10	22	35	44	60	69	70	35	27
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	28	11	14	38	50	92	116	124	42	30
48002	HWY47/E OF HWY48 STOUFFVILLE	56	11	25	40	51	76	156	215	44	34
58027	51 SHUTER ST PORT HOPE	68	10	21	28	47	71	91	106	36	28
58041	FILL PLT, MARSH ST PORT HOPE	71	11	22	34	44	65	90	91	36	29
58042	CAN TIRE, QUEEN ST PORT HOPE	69	7	20	26	39	66	113	168	34	25
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	58	6	8	13	17	29	58	64	16	13
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	57	5	7	10	16	31	67	78	15	11
63200	HTC 615 JAMES ST S THUNDER BAY	56	5	8	11	17	31	63	72	16	12
71042	PURPHOUSE, BONNEY ST SAULT STE MARIE	348	4	8	13	22	46	106	182	20	13
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	49	2	5	6	11	18	58	73	11	6

TABLE A-36 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
 YEAR - 1989 POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					MAX	ARITH MEAN	GEOM MEAN
			10	30	50	70	90			
71068	WM. MERRIFIELD SCHOOL	105	6	8	11	17	34	53	54	16
71072	SAULT STE MARIE	92	5	7	12	19	37	62	87	17
75010	FIRST AV/SECOND LINE OPP STN	46	5	9	13	24	58	90	90	23
77016	NORTH BAY	47	2	3	5	7	9	43	44	7
77026	WATER TANK, ASH ST SUDBURY	53	5	8	11	19	33	56	67	16
77070	19 LISGAR ST SUDBURY	50	2	3	5	10	23	57	67	10
	PUMPHOUSE, NICKEL ST COPPER CLIFF									5

TABLE A-37 10-YEAR TREND FOR NO<sub>3</sub>

City	Annual geometric mean (ug/m <sup>3</sup> )									
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
BRAMALEA	2.9	3.0	4.3	3.8	3.8	3.6	3.7	3.3	4.0	3.8
ETOBICOKE	4.6	4.9	4.9	3.3	3.7	3.0	3.8	2.8	3.1	3.6
HAMILTON	3.8	3.4	3.7	3.7	3.8	3.5	3.8	3.9	3.7	4.7
KITCHENER	3.7	3.4	3.7	3.1	3.3	2.8	3.3	3.2	1.8	4.2
LONDON	4.5	3.5	3.6	3.3	3.6	3.3	3.6	3.9	2.3	3.9
MISSISSAUGA	3.1	3.5	4.0	4.1	3.8	3.5	3.0	2.9	1.8	2.6
NORTH BAY	1.4	1.2	1.2	1.2	1.1	1.0	.9	.9	1.3	1.5
NORTH YORK *	3.3	3.1	3.2	3.1	3.3	3.1	2.7	2.8	2.9	3.1
OSHAWA	3.2	3.3	3.2	3.0	3.5	2.9	3.0	3.2	2.1	3.5
PORT HOPE	2.7	2.5	4.2	2.3	4.3	3.0	1.7	2.8	2.5	2.8
S.S.MARIE	1.4	1.5	1.2	1.3	1.2	1.0	.9	.9	1.4	1.2
SCARBOROUGH	3.4	3.0	3.3	3.2	3.6	3.2	3.1	2.8	1.9	3.7
SUDBURY	1.2	1.6	1.1	1.3	.9	.8	.6	1.0	0.8	0.4
THUNDER BAY	1.2	1.5	1.2	.7	.9	.8	.9	1.0	1.1	1.3
TORONTO	3.7	3.7	3.8	3.6	3.5	3.5	3.4	3.3	3.1	4.2
WINDSOR	5.5	5.8	4.4	4.1	3.5	3.9	2.9	4.4	4.1	2.3

\* change of location from Science Centre (34002) to Yonge/Finch (34020)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1989		POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE										UNIT - .1 MICROGRAMS/CU.METRE			
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES								MAX	ARITH MEAN	GEOM MEAN		
			10	30	50	70	90	99							
12002	CITY HALL, 444 WINDSOR AV	53	38	53	72	114	172	311	426	97	79				
12008	WINDSOR														
12008	467 UNIVERSITY AV W	318	55	75	89	116	177	306	336	106	95				
12015	SEWAGE STN, HWY 18/PROSPECT														
12015	WINDSOR	60	50	67	81	138	195	334	418	111	93				
12038	2885 HOWARD AV														
12038	WINDSOR	57	74	89	104	136	165	221	233	114	108				
12039	DOUGLAS ST/E.C. ROW W														
12039	WINDSOR	60	41	56	70	104	164	261	303	92	79				
12047	DORWIN PLAZA, DOUGALL AV														
12047	WINDSOR	51	39	56	82	116	169	258	314	96	81				
12049	643 ALEXANDRINE														
12051	WINDSOR	59	36	48	58	96	145	225	271	80	68				
12051	604 CAPITOL/REMYNGTON														
14016	WINDSOR	55	35	51	65	98	139	214	260	80	68				
14016	HWY40 (OPP LANBTON GS)														
14016	COURTRIGHT	340	52	71	84	105	162	256	409	97	88				
14064	CENTENNIAL PK.FRONT ST/CN TRACKS														
15001	SARNIA	56	50	61	74	88	141	230	337	85	75				
15001	WRN FAIR GROUNDS, KING/RECTORY														
15014	LONDON	59	41	56	73	118	167	284	394	94	80				
15014	POND HILLS RD/DEVERON CRES														
15014	LONDON	60	63	76	90	116	156	201	235	101	94				
15015	951 COMMISSIONERS RD E														
15015	LONDON	59	47	68	80	106	159	276	404	95	84				
15016	801 COMMISSIONERS RD E														
15016	LONDON	59	39	60	71	90	148	244	299	84	74				
15017	8 MOUNTSFIELD DR														
15017	LONDON	57	56	70	84	116	164	307	415	102	91				
22904	WALPOLE S PS, SANDUSK RD														
22904	NANTICOKE	45	58	81	103	116	138	191	203	101	95				
26029	EDNA/FREDERICK STS														
26029	KITCHENER	56	50	74	93	113	168	228	239	101	91				
27008	71 KING ST														
27008	ST CATHARINES	54	50	72	81	97	168	231	268	94	85				
27056	ALLENDALE AV														
27056	NIAGARA FALLS	52	60	82	94	116	161	235	243	105	98				
28028	EXHIBITION ST/CLARK ST														
28028	GUELPH	58	48	63	76	101	128	211	240	86	78				
29011	BURLINGTON/LEEDS														
29011	HAMILTON	61	60	80	105	143	198	258	304	118	106				
29012	BURLINGTON/WELLINGTON														
29012	HAMILTON	60	58	73	89	115	166	224	227	102	93				
29017	CHATHAN/FRID														
29017	HAMILTON	55	59	83	98	130	183	236	253	109	98				
29025	BARTON/MENTWORTH														
29025	HAMILTON	59	70	90	108	146	208	338	352	129	117				
29087	405 CUMBERLAND AV														
29087	HAMILTON	61	43	56	69	91	130	187	192	80	71				
29098	BAY/MAIN ST														
29098	HAMILTON	60	45	78	97	131	187	242	265	109	96				



TABLE A-38 (CONT.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
 POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU. METRE

YEAR - 1989

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES				MAX	ARITH GEOM MEAN	
			10	30	50	70	90		
29102	467 BEACH BLVD HAMILTON	59	68	103	127	153	205	282	311 132 121
29114	VICKERS RD/EAST 18TH ST HAMILTON	56	62	96	117	148	201	301	367 127 110
31104	26 BREADALBANE TORONTO	356	44	67	84	102	150	291	344 93 83
32010	LEASIDE HYDRO STATION EAST YORK	36	45	64	84	101	153	197	211 91 82
33003	LAWRENCE/KENNEDY SCARBORO	59	47	70	84	103	141	284	310 95 84
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	48	35	52	63	82	132	178	191 74 65
34025	35 EDGAR AVE NORTH YORK WEST	51	52	63	74	86	135	190	191 85 78
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	39	42	70	85	108	143	169	171 91 83
35033	EVANS/ARNOLD AV ETOBICOKE	60	64	77	96	118	171	236	238 107 99
36030	CLEARVIEW HTGS/KEELE ST YORK	30	24	65	93	111	147	204	221 92 73
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	56	46	74	86	99	184	288	410 99 87
44015	BRONTE RD/HOBURN CRES OAKVILLE	41	59	80	99	119	153	297	315 110 93
45025	PS, RITSON RD/OLIVE AV OSHAWA	60	62	74	87	105	148	238	276 99 92
46033	FIRE HALL, BRAHALEA RD BRAHALEA	50	40	63	84	123	172	219	219 97 82
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	56	35	43	57	81	116	173	194 69 61
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	17	50	60	74	81	91	117	121 72 69
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	28	53	63	75	88	113	150	156 78 73
48002	HWY47/E OF HWY48 STOUFFVILLE	56	34	55	68	78	117	215	216 76 67
58027	51 SHUTER ST PORT HOPE	68	29	45	66	93	159	222	280 80 65
58041	FILT PLT, HARGH ST PORT HOPE	71	27	42	69	110	177	222	292 85 67
58042	CAN TIRE, QUEEN ST PORT HOPE	69	27	45	70	104	175	227	238 85 68
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	58	28	38	45	54	97	111	112 52 47
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	57	21	33	40	51	93	152	216 50 42
63200	HTC 615 JAMES ST S THUNDER BAY	56	23	36	43	49	86	166	272 51 44
71042	PURPHOUSE, BONNEY ST SAULT STE MARIE	348	31	51	74	109	195	320	456 94 74
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	49	19	29	39	63	105	201	218 55 44

TABLE A-38 (CONT.)

YEAR - 1989      POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE      UNIT - .1 MICROGRAMS/CU.METRE

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					MAX	ARITH MEAN	GEOM MEAN
			10	30	50	70	90			
71068	WM. MERRIFIELD SCHOOL	105	25	39	50	70	109	213	227	63
71072	SAULT STE MARIE FIRST AV/SECOND LINE	92	26	36	53	70	119	214	225	63
75010	SAULT STE MARIE OPP STN	46	39	63	76	89	130	211	214	82
77016	NORTH BAY WATER TANK, ASH ST	47	24	29	38	55	108	165	167	53
77026	SUDBURY 19 LISGAR ST	53	33	57	73	84	166	225	234	81
77070	SUDBURY PUMPHOUSE, NICKEL ST COPPER CLIFF	50	27	36	54	69	92	188	212	61
										52
										52
										74
										43
										70
										52

TABLE A-39 10-YEAR TREND FOR SO<sub>2</sub>\*

City	Annual geometric mean (ug/m3)										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	
BRAMALEA	9.0	8.2	8.8	9.0	10.8	7.7	8.8	7.7	9.7	8.2	
ETOBICOKE	13.8	12.1	11.3	8.8	9.3	7.7	8.7	8.2	8.4	8.3	
HAMILTON	12.5	9.6	9.6	10.1	10.9	8.8	11.5	13.0	10.9	11.7	
KITCHENER	11.4	9.9	8.5	7.0	7.7	5.7	7.6	9.8	5.8	9.1	
LONDON	10.7	8.1	7.9	7.3	8.7	6.9	7.5	9.4	5.9	8.0	
MISSISSAUGA	10.3	10.3	9.5	10.0	10.7	7.1	7.1	9.2	6.1	6.1	
NORTH BAY	8.2	6.6	6.3	6.6	7.1	6.0	4.5	7.2	8.3	7.4	
NORTH YORK *	11.7	9.1	8.8	8.0	7.3	7.7	7.3	8.0	7.3	6.5	
OSHAWA	10.1	9.5	8.9	8.7	8.4	7.2	8.1	10.3	6.9	9.2	
PORT HOPE	7.5	7.0	5.2	5.6	7.1	6.5	5.5	7.2	7.0	6.5	
SCARBOROUGH	11.7	9.1	8.6	8.4	8.2	7.0	7.7	7.8	5.6	8.4	
S.S. MARIE	10.1	7.8	7.7	7.0	6.8	7.2	5.1	6.4	8.0	4.6	
SUDBURY	10.6	9.8	7.3	8.5	7.4	5.2	5.8	8.2	6.3	4.4	
THUNDER BAY	6.5	7.8	6.4	4.0	4.3	3.5	3.6	2.9	3.2	4.7	
TORONTO	12.9	10.1	9.5	8.7	8.0	7.3	8.0	9.5	7.2	8.3	
WINDSOR	12.6	12.0	9.9	8.7	8.6	8.5	10.5	11.3	10.4	7.9	

\* change of location from Science Centre (34002) to Yonge/Finch (34020)

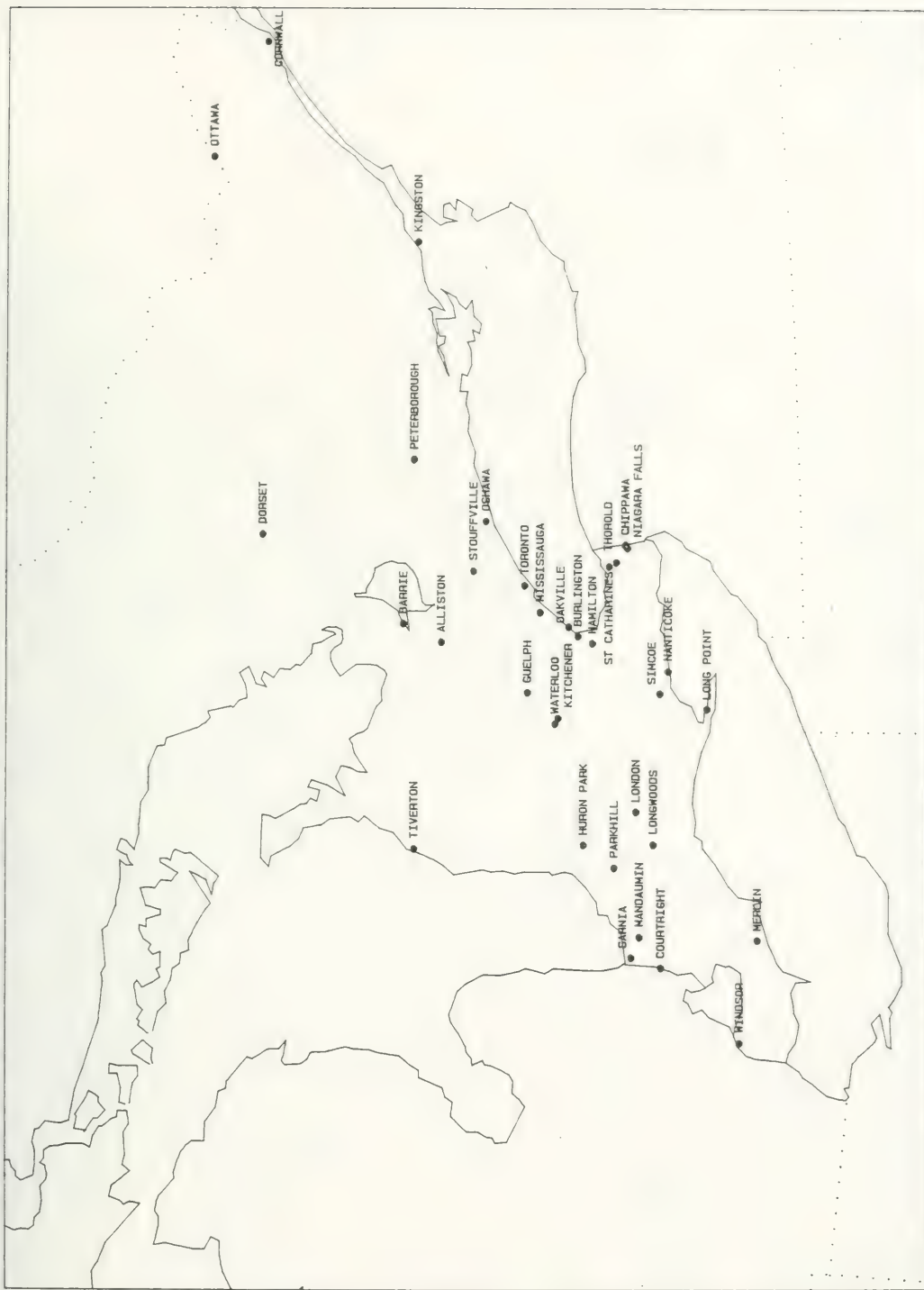
TABLE A-40 STATIONS USED IN TRENDS OF GASES (1980-1989)

City	Station (Period)
Burlington	44008 (1980 - 1989)
Cornwall	56051 (1980 - 1989)
Etobicoke	35003 (1980 - 1989)
Fort Frances	62030 (1980 - 1989)
Hamilton	29025 (1980-1986); 29000 (1987-1989)
Huron Park	10001 (1980 - 1989)
Kitchener	26029 (1980 - 1989)
London	15001 (1980 - 1989)
Long Point	22901 (1980 - 1989)
Mandaumin	14118 (1980 - 1989)
Merlin	13021 (1980 - 1989)
Niagara Falls	27049 (1980-1982); 27056 (1983-1989)
North Bay	75010 (1980 - 1989)
North York	34002 (1980 - 1989)
Oakville	44015 (1980 - 1989)
Oshawa	45025 (1980 - 1989)
Ottawa	51001 (1980 - 1989)
Peterborough	59006 (1980 - 1989)
Sarnia	14064 (1980 - 1989)
Scarborough	33003 (1980 - 1989)
Simcoe	22071 (1980 - 1989)
St Catharines	27037 (1980-1986); 27067 (1987-1989)
Stouffville	48002 (1980 - 1989)
Sudbury	77016 (1980-1987); 77203 (1988-1989)
Thunder Bay	63040 (1980-1986); 63200 (1987-1989)
Tiverton	18007 (1980 - 1989)
Toronto	31104 (1980 - 1989)
Windsor	12008 (1980 - 1989)

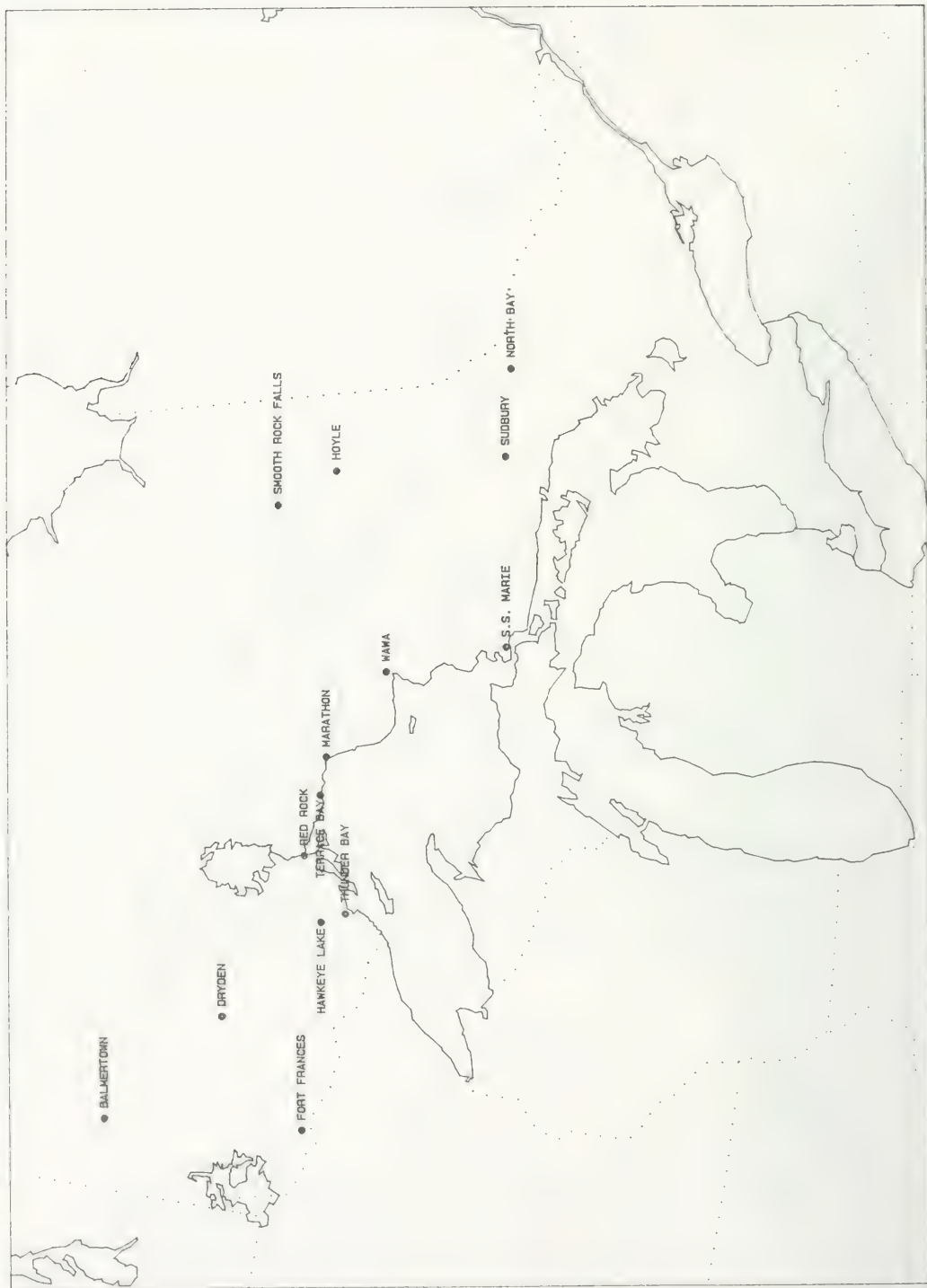
TABLE A-41 STATIONS USED IN TRENDS OF PARTICULATES (1980-1989)

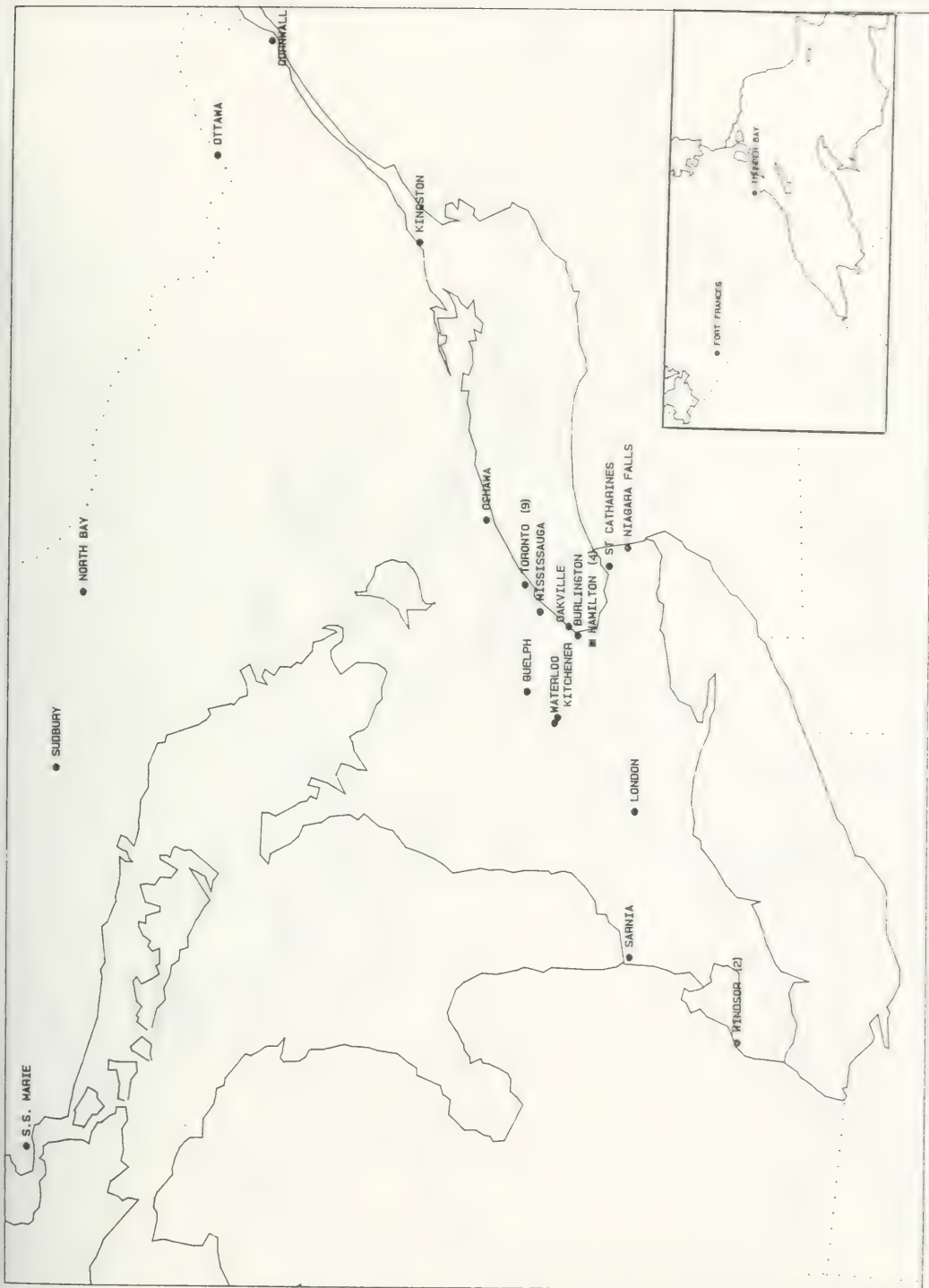
City	Station (period)
Atikokan	62013 (1980 - 1989)
Bramalea	46033 (1980 - 1989)
Burlington	44008 (1980 - 1989)
Chatham	13003 (1980 - 1989)
Courtright	14016 (1980 - 1989)
Etobicoke	35003 (1980 - 1989)
Espanola	77029 (1980 - 1989)
Fort Frances	62032 (1980 - 1989)
Hamilton	29025 (1980 - 1989)
Jarvis	22092 (1980 - 1989)
Kitchener	26029 (1980 - 1989)
London	15001 (1980 - 1989)
Mississauga	46110 (1980 - 1989)
North Bay	75010 (1980 - 1989)
North York	34002 (1980 - 1988); 34020 (1989)
Oakville	44015 (1980 - 1989)
Oshawa	45025 (1980 - 1989)
Pickering	45001 (1980 - 1989)
Port Colborne	27047 (1980 - 1989)
Port Hope	58027 (1980 - 1989)
S.S. Marie	71049 (1980 - 1989)
Sarnia	14064 (1980 - 1989)
Scarborough	33003 (1980 - 1989)
St Catharines	27008 (1980 - 1989)
St Thomas	15006 (1980 - 1989)
Sudbury	77016 (1980 - 1989)
Thunder Bay	63005 (1980 - 1989)
Toronto	31104 (1980 - 1989)
Welland	27045 (1980 - 1989)
Windsor	12002 (1980 - 1989)

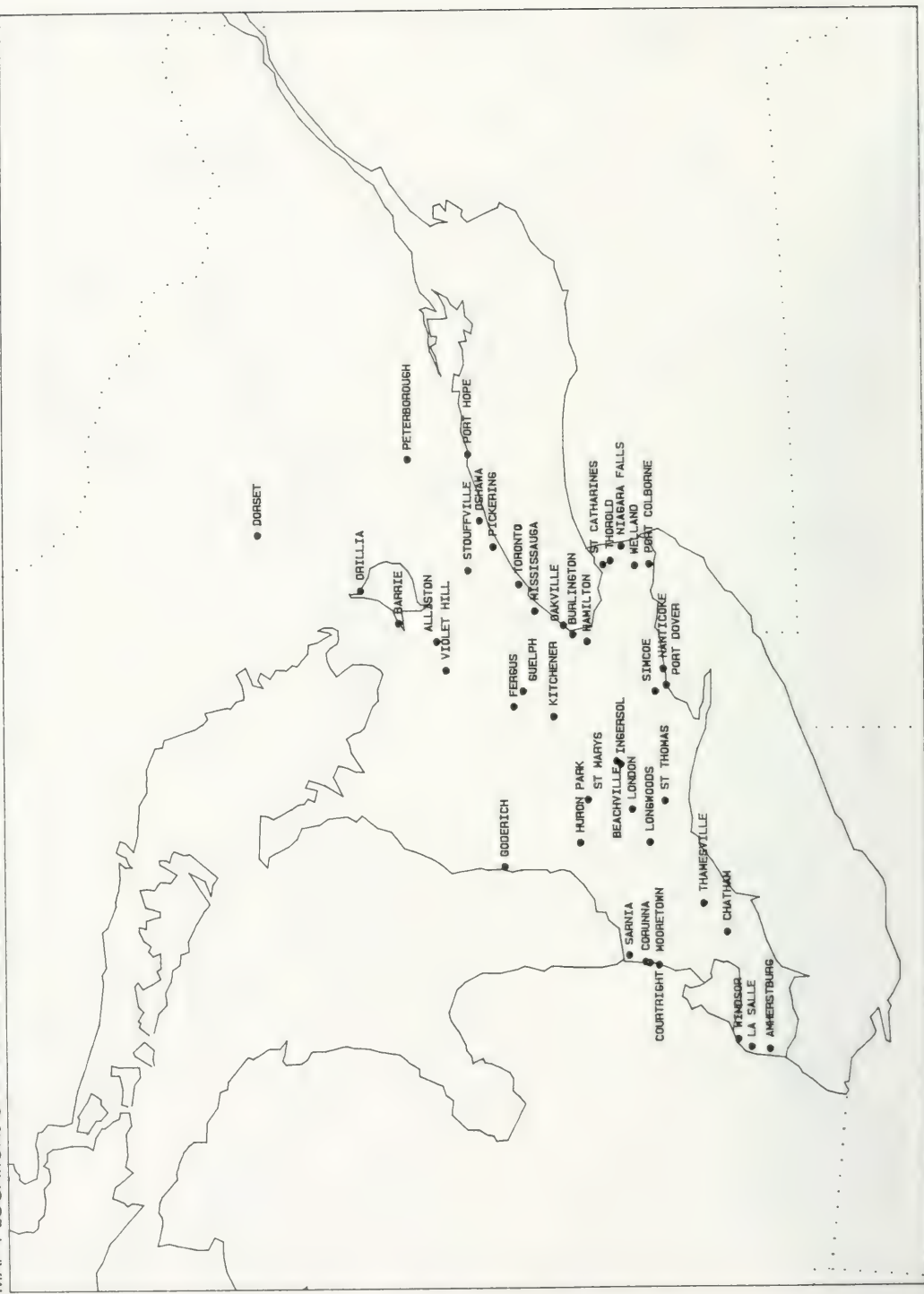
MAP 1 LOCATIONS OF CONTINUOUS MONITORING STATIONS - S. ONTARIO



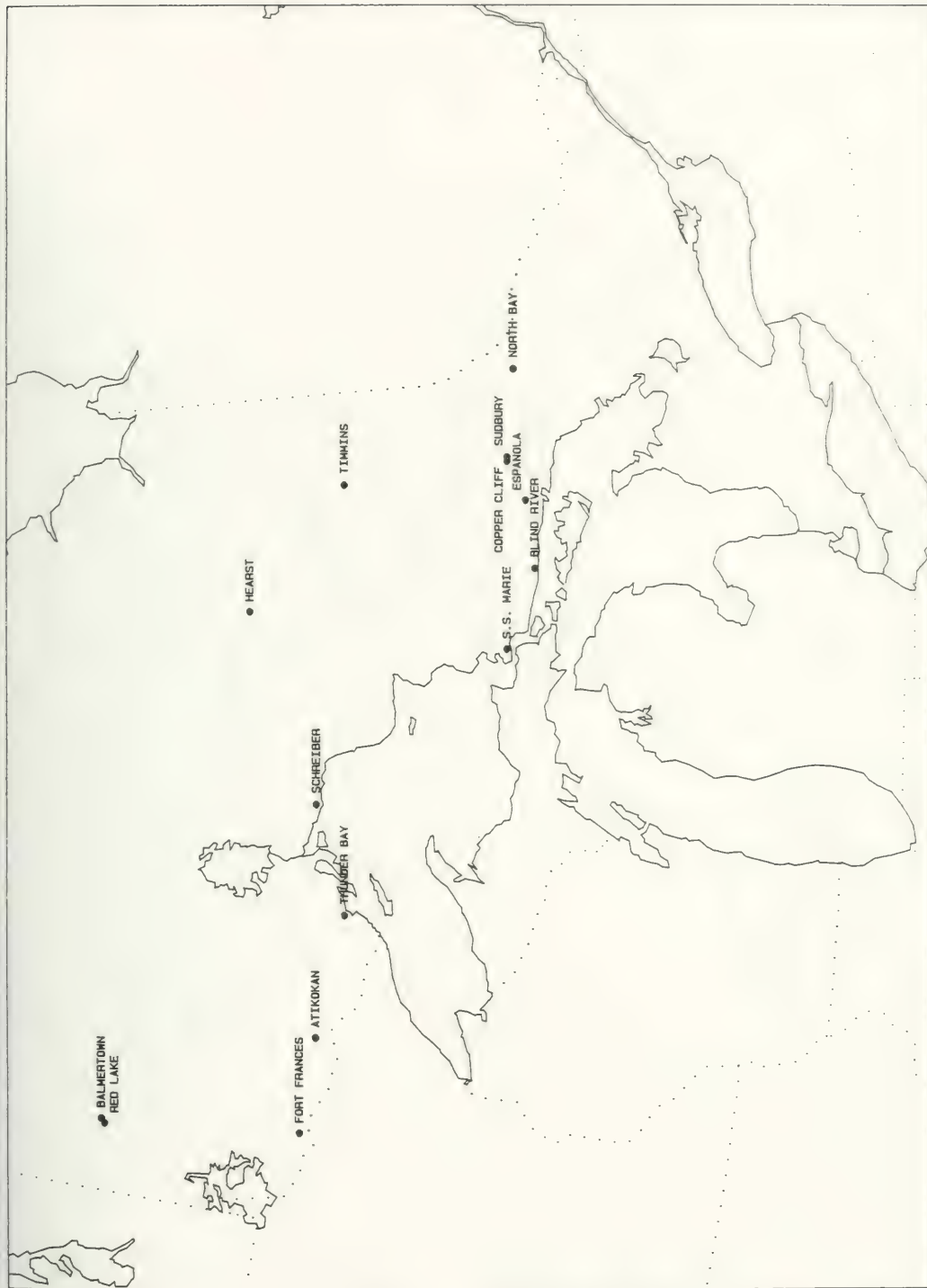


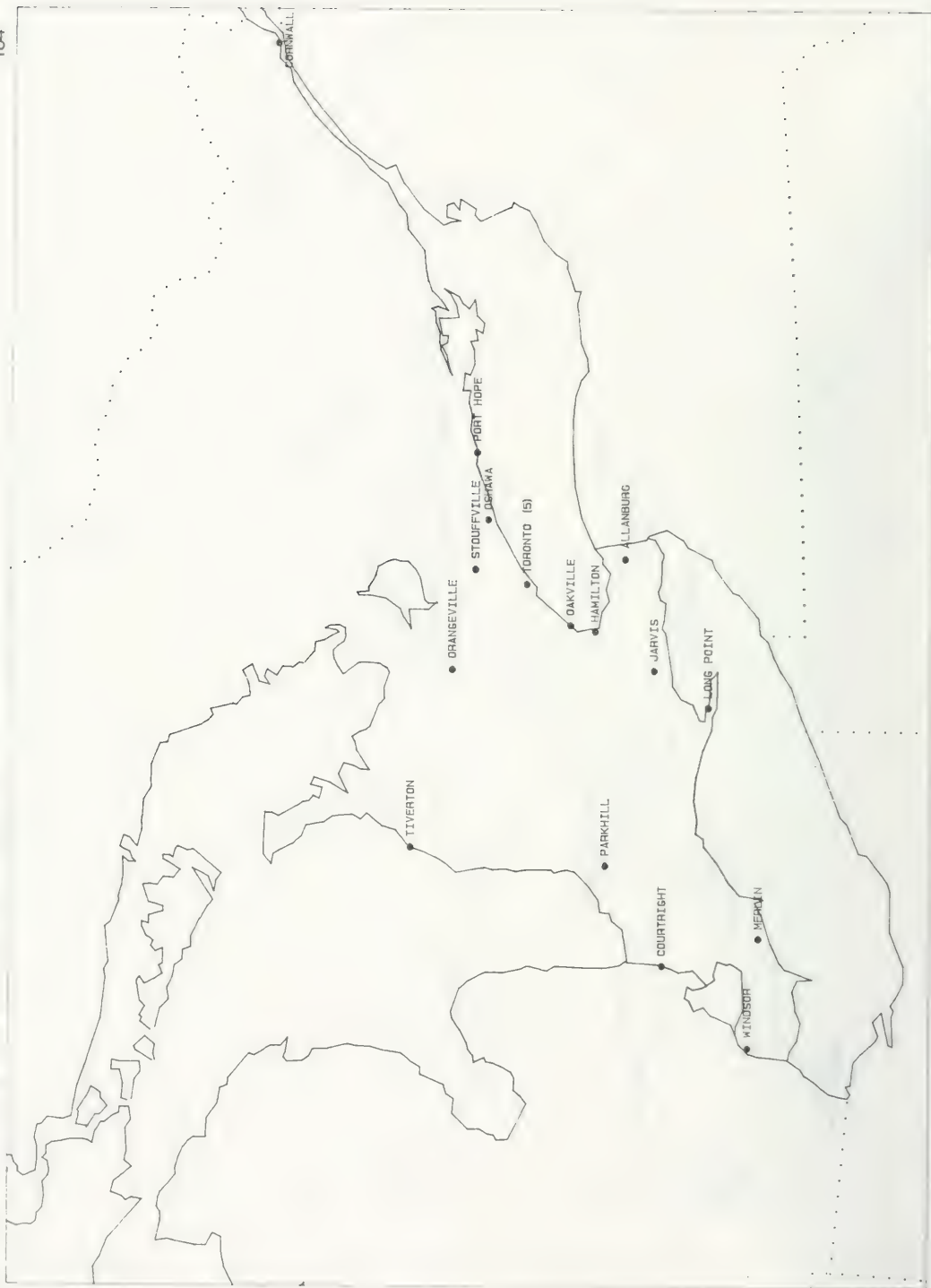






MAP 5 LOCATIONS OF DAILY MONITORING - N. ONTARIO





MAP 7 LOCATIONS OF METEOROLOGICAL MONITORING - N. ONTARIO

